

# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### CHEMISTRY

## C12 BIOCHEMISTRY; BEER; SPIRITS; WINE; VINEGAR; MICROBIOLOGY; ENZYMOLOGY; MUTATION OR GENETIC ENGINEERING

(NOTES omitted)

## C12Y ENZYMES

### NOTES

- This subclass covers all enzymes.
- In this subclass, each enzyme is classified according to their EC number of the "Enzyme Nomenclature" (as valid on 1 January 2012) recommended by the Nomenclature Committee of the International Union of Biochemistry and Molecular Biology. The EC number appears in the subgroups in parenthesis and is reflected in the classification symbol: the EC number with the notation a.bb.cc.ddd is rendered into a CPC symbol [C12Y](#) ABB/CCDDD (with no trailing zeroes at the end) where:
  - EC a.bb.cc.ddd: a ranges from 1 – 6; CPC symbol: A = 1 – 6
  - EC a.bb.cc.ddd: b ranges from 1 – 99 (\*); CPC symbol: B = 01 – 99
  - EC a.bb.cc.ddd: c ranges from 1 – 99 (\*); CPC symbol: C = 01 – 99
  - EC a.bb.cc.ddd: d ranges from 1 – 400 (\*); CPC symbol: D = 001 – 400
  - (\*) not all numbers are used
 Examples:
  - Alcohol dehydrogenase: EC 1.1.1.1. is classified in [C12Y 101/01001](#)
  - Togavirin: EC 3.4.21.90 is classified in [C12Y 304/2109](#)
  - Hepsin: EC 3.4.21.106 is classified in [C12Y 304/21106](#)
  - Cobaltochelataase: EC 6.6.1.2 is classified in [C12Y 606/01002](#)
- This subclass is for discretionary supplementary classification of subject matter already classified as such in other classification places, e.g.:
  - [A01N 1/00](#): Compositions containing enzymes and use of the compositions and compounds for preservation of bodies of humans or animals or parts thereof
  - [A01N 3/00](#): Compositions containing enzymes and use of the compositions and compounds for preservation of plants or parts thereof
  - [A01N 63/00](#): Biocides, pest repellents or attractants or plant growth regulators containing enzymes
  - [A21D 10/00](#), [A21D 13/00](#) : Bakery products which may contain enzymes
  - [A23](#): Foods or foodstuffs containing enzymes
  - [A61K](#): Preparations for medical dental or toilet purposes containing enzymes
  - [A61K 31/7088](#): Medical preparations containing nucleic acids encoding enzymes
  - [A61K 48/00](#): Medical preparations containing genetic material encoding enzymes which is inserted into cells of the living body to treat genetic diseases; Gene therapy
  - [A61L 12/082](#): Methods or apparatus for disinfecting or sterilising contact lenses in combination with enzymes
  - [A61L 15/38](#): Bandages, dressings or absorbent pads for physiological fluids containing enzymes
  - [A61L 27/3683](#): Material for prostheses subjected to enzyme treatment prior to implantation
  - [C07K 14/81](#): Protease inhibitors
  - [C07K 16/40](#): Antibodies against enzymes
  - [C11D 3/386](#): Detergent compositions containing enzymes
  - [C12C 1/00](#): Preparation of malt
  - [C12M](#): Apparatus for enzymology
  - [C12N 9/00](#): Enzymes
  - [C12N 11/00](#): Carrier-bound or immobilised enzymes
  - [C12N 13/00](#): Treatment of enzymes with electrical or wave energy
  - [C12N 15/00](#): Nucleic acids encoding (part of) enzymes
  - [C12N 15/113](#), [C12N 15/8281](#) Non-encoding nucleic acids modulating the expression of genes for enzymes
  - [C12P](#): Preparation of compounds using enzymes
  - [C12Q 1/00](#): Measuring or testing processes involving enzymes; Compositions therefor; Processes of preparing such compositions
  - [G01N 33/573](#): Immunoassays for enzymes
- Specific classification rules for the allocation of [C12Y](#) symbols together with any of the groups listed above, are specified within the relevant group, if available.

## C12Y

## C12Y

(continued)

5. The classification symbols of this subclass are not listed first when assigned to patent documents.

**101/00 Oxidoreductases acting on the CH-OH group of donors (1.1)**101/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.1.1)

101/01001 . . Alcohol dehydrogenase (1.1.1.1)

101/01002 . . Alcohol dehydrogenase (NADP<sup>+</sup>) (1.1.1.2), i.e. aldehyde reductase

101/01003 . . Homoserine dehydrogenase (1.1.1.3)

101/01004 . . R,R-butenediol dehydrogenase (1.1.1.4)

101/01005 . . Acetoin dehydrogenase (1.1.1.5)  
([C12Y 101/01303](#), [C12Y 101/01304](#) takes precedence)

101/01006 . . Glycerol dehydrogenase (1.1.1.6)

101/01007 . . Propanediol-phosphate dehydrogenase (1.1.1.7)

101/01008 . . Glycerol-3-phosphate dehydrogenase (NAD<sup>+</sup>) (1.1.1.8)

101/01009 . . D-Xylulose reductase (1.1.1.9), i.e. xylitol dehydrogenase

101/0101 . . L-Xylulose reductase (1.1.1.10)

101/01011 . . D-Arabinitol 4-dehydrogenase (1.1.1.11)

101/01012 . . L-Arabinitol 4-dehydrogenase (1.1.1.12)

101/01013 . . L-Arabinitol 2-dehydrogenase (1.1.1.13)

101/01014 . . L-Iditol 2-dehydrogenase (1.1.1.14), i.e. sorbitol-dehydrogenase

101/01015 . . D-Iditol 2-dehydrogenase (1.1.1.15)

101/01016 . . Galactitol 2-dehydrogenase (1.1.1.16)

101/01017 . . Mannitol-1-phosphate 5-dehydrogenase (1.1.1.17)

101/01018 . . Inositol 2-dehydrogenase (1.1.1.18)

101/01019 . . Glucuronate reductase (1.1.1.19)

101/0102 . . Glucuronolactone reductase (1.1.1.20)

101/01021 . . Aldehyde reductase (1.1.1.21), i.e. aldose-reductase

101/01022 . . UDP-glucose 6-dehydrogenase (1.1.1.22)

101/01023 . . Histidinol dehydrogenase (1.1.1.23)

101/01024 . . Quinate dehydrogenase (1.1.1.24)

101/01025 . . Shikimate dehydrogenase (1.1.1.25)

101/01026 . . Glyoxylate reductase (1.1.1.26)

101/01027 . . L-Lactate dehydrogenase (1.1.1.27)

101/01028 . . D-Lactate dehydrogenase (1.1.1.28)

101/01029 . . Glycerate dehydrogenase (1.1.1.29)

101/0103 . . 3-Hydroxybutyrate dehydrogenase (1.1.1.30)

101/01031 . . 3-Hydroxyisobutyrate dehydrogenase (1.1.1.31)

101/01032 . . Mevaldate reductase (1.1.1.32)

101/01033 . . Mevaldate reductase (NADPH) (1.1.1.33)

101/01034 . . Hydroxymethylglutaryl-CoA reductase (NADPH) (1.1.1.34)

101/01035 . . 3-Hydroxyacyl-CoA dehydrogenase (1.1.1.35)

101/01036 . . Acetoacetyl-CoA reductase (1.1.1.36)

101/01037 . . Malate dehydrogenase (1.1.1.37)

101/01038 . . Malate dehydrogenase (oxaloacetate-decarboxylating) (1.1.1.38)

101/01039 . . Malate dehydrogenase (decarboxylating) (1.1.1.39)

101/0104 . . Malate dehydrogenase (oxaloacetate-decarboxylating) (NADP<sup>+</sup>) (1.1.1.40)101/01041 . . Isocitrate dehydrogenase (NAD<sup>+</sup>) (1.1.1.41)101/01042 . . Isocitrate dehydrogenase (NADP<sup>+</sup>) (1.1.1.42)

101/01043 . . Phosphogluconate 2-dehydrogenase (1.1.1.43)

101/01044 . . Phosphogluconate dehydrogenase (decarboxylating) (1.1.1.44)

101/01045 . . L-Gulonate 3-dehydrogenase (1.1.1.45)

101/01046 . . L-Arabinose 1-dehydrogenase (1.1.1.46)

101/01047 . . Glucose 1-dehydrogenase (1.1.1.47)

101/01048 . . D-Galactose 1-dehydrogenase (1.1.1.48)

101/01049 . . Glucose-6-phosphate dehydrogenase (1.1.1.49)

101/0105 . . 3-Alpha-hydroxysteroid 3-dehydrogenase (B-specific) (1.1.1.50)

101/01051 . . 3 (or 17)-Beta-hydroxysteroid dehydrogenase (1.1.1.51)

101/01052 . . 3-Alpha-hydroxycholanate dehydrogenase (1.1.1.52)

101/01053 . . 3-Alpha (or 20-beta)-hydroxysteroid dehydrogenase (1.1.1.53)

101/01054 . . Allyl-alcohol dehydrogenase (1.1.1.54)

101/01055 . . Lactaldehyde reductase (NADPH) (1.1.1.55)

101/01056 . . Ribitol 2-dehydrogenase (1.1.1.56)

101/01057 . . Fructuronate reductase (1.1.1.57)

101/01058 . . Tagaturonate reductase (1.1.1.58)

101/01059 . . 3-Hydroxypropionate dehydrogenase (1.1.1.59)

101/0106 . . 2-Hydroxy-3-oxopropionate reductase (1.1.1.60)

101/01061 . . 4-Hydroxybutyrate dehydrogenase (1.1.1.61)

101/01062 . . 17Beta-estradiol 17-dehydrogenase (1.1.1.62)

101/01064 . . Testosterone 17-beta-dehydrogenase (NADP<sup>+</sup>) (1.1.1.64)

101/01065 . . Pyridoxine 4-dehydrogenase (1.1.1.65)

101/01066 . . Omega-hydroxydecanoate dehydrogenase (1.1.1.66)

101/01067 . . Mannitol 2-dehydrogenase (1.1.1.67)

101/01069 . . Gluconate 5-dehydrogenase (1.1.1.69)

101/01071 . . Alcohol dehydrogenase [NAD(P)<sup>+</sup>] (1.1.1.71)101/01072 . . Glycerol dehydrogenase (NADP<sup>+</sup>) (1.1.1.72)

101/01073 . . Octanol dehydrogenase (1.1.1.73)

101/01075 . . (R)-Aminopropanol dehydrogenase (1.1.1.75)

101/01076 . . (S,S)-Butanediol dehydrogenase (1.1.1.76)

101/01077 . . Lactaldehyde reductase (1.1.1.77)

101/01078 . . Methylglyoxal reductase (NADH-dependent) (1.1.1.78)

101/01079 . . Glyoxylate reductase (NADP<sup>+</sup>) (1.1.1.79)101/0108 . . Isopropanol dehydrogenase (NADP<sup>+</sup>) (1.1.1.80)

101/01081 . . Hydroxypyruvate reductase (1.1.1.81)

101/01082 . . Malate dehydrogenase (NADP<sup>+</sup>) (1.1.1.82)

101/01083 . . D-Malate dehydrogenase (decarboxylating) (1.1.1.83)

101/01084 . . Dimethylmalate dehydrogenase (1.1.1.84)

101/01085 . . 3-Isopropylmalate dehydrogenase (1.1.1.85)

101/01086 . . Ketol-acid reductoisomerase (1.1.1.86)

101/01087 . . Homoisocitrate dehydrogenase (1.1.1.87)

101/01088 . . Hydroxymethylglutaryl-CoA reductase (1.1.1.88)

101/0109 . . Aryl-alcohol dehydrogenase (1.1.1.90)

101/01091 . . Aryl-alcohol dehydrogenase (NADP<sup>+</sup>) (1.1.1.91)

101/01092 . . Oxaloglycolate reductase (decarboxylating) (1.1.1.92)

101/01093 . . Tartrate dehydrogenase (1.1.1.93)

101/01094 . . Glycerol-3-phosphate dehydrogenase (NAD(P)<sup>+</sup>) (1.1.1.94)

101/01095 . . Phosphoglycerate dehydrogenase (1.1.1.95)

101/01096 . . Diiodophenylpyruvate reductase (1.1.1.96)

101/01097 . . 3-Hydroxybenzyl-alcohol dehydrogenase (1.1.1.97)

101/01098	. . (R)-2-Hydroxy-fatty-acid dehydrogenase (1.1.1.98)	101/01147	. . 16-Alpha-hydroxysteroid dehydrogenase (1.1.1.147)
101/01099	. . (S)-2-Hydroxy-fatty-acid dehydrogenase (1.1.1.99)	101/01148	. . Estradiol 17alpha-dehydrogenase (1.1.1.148)
101/011	. . 3-Oxoacyl-[acyl-carrier-protein] reductase (1.1.1.100)	101/01149	. . 20-Alpha-hydroxysteroid dehydrogenase (1.1.1.149)
101/01101	. . Acylglycerone-phosphate reductase (1.1.1.101)	101/0115	. . 21-Hydroxysteroid dehydrogenase (NAD+) (1.1.1.150)
101/01102	. . 3-Dehydrosphinganine reductase (1.1.1.102)	101/01151	. . 21-Hydroxysteroid dehydrogenase (NADP+) (1.1.1.151)
101/01103	. . L-Threonine 3-dehydrogenase (1.1.1.103)	101/01152	. . 3-Alpha-hydroxy-5-beta-androstane-17-one 3-alpha-dehydrogenase (1.1.1.152)
101/01104	. . 4-Oxoproline reductase (1.1.1.104)	101/01153	. . Sepiapterin reductase (L-erythro-7,8-dihydrobiopterin forming) (1.1.1.153)
101/01105	. . Retinol dehydrogenase (1.1.1.105)	101/01154	. . Ureidoglycolate dehydrogenase (1.1.1.154)
101/01106	. . Pantoate 4-dehydrogenase (1.1.1.106)	101/01156	. . Glycerol 2-dehydrogenase (NADP+) (1.1.1.156)
101/01107	. . Pyridoxal 4-dehydrogenase (1.1.1.107)	101/01157	. . 3-Hydroxybutyryl-CoA dehydrogenase (1.1.1.157)
101/01108	. . Carnitine 3-dehydrogenase (1.1.1.108)	101/01158	. . UDP-N-acetylmuramate dehydrogenase (1.1.1.158), i.e. UDP-N-acetylenolpyruvoylglucosamine reductase
101/0111	. . Indolelactate dehydrogenase (1.1.1.110)	101/01159	. . 7-Alpha-hydroxysteroid dehydrogenase (1.1.1.159)
101/01111	. . 3-(Imidazol-5-yl)lactate dehydrogenase (1.1.1.111)	101/0116	. . Dihydrobunolol dehydrogenase (1.1.1.160)
101/01112	. . Indanol dehydrogenase (1.1.1.112)	101/01162	. . Erythrulose reductase (1.1.1.162)
101/01113	. . L-Xylose 1-dehydrogenase (1.1.1.113)	101/01163	. . Cyclopentanol dehydrogenase (1.1.1.163)
101/01114	. . Apiose 1-reductase (1.1.1.114)	101/01164	. . Hexadecanol dehydrogenase (1.1.1.164)
101/01115	. . Ribose 1-dehydrogenase (NADP+) (1.1.1.115)	101/01165	. . 2-Alkyn-1-ol dehydrogenase (1.1.1.165)
101/01116	. . D-Arabinose 1-dehydrogenase (1.1.1.116)	101/01166	. . Hydroxycyclohexanecarboxylate dehydrogenase (1.1.1.166)
101/01117	. . D-Arabinose 1-dehydrogenase (NAD(P)+) (1.1.1.117)	101/01167	. . Hydroxymalonate dehydrogenase (1.1.1.167)
101/01118	. . Glucose 1-dehydrogenase (NAD+) (1.1.1.118)	101/01168	. . 2-Dehydropantolactone reductase (A-specific) (1.1.1.168)
101/01119	. . Glucose 1-dehydrogenase (NADP+) (1.1.1.119)	101/01169	. . 2-Dehydropantoate 2-reductase (1.1.1.169), i.e. ketopantoate-reductase
101/0112	. . Galactose 1-dehydrogenase (NADP+) (1.1.1.120)	101/0117	. . 3Beta-hydroxy-4alpha-carboxy-sterol 3-dehydrogenase (decarboxylating) (1.1.1.170)
101/01121	. . Aldose 1-dehydrogenase (1.1.1.121)	101/01172	. . 2-Oxadipate reductase (1.1.1.172)
101/01122	. . D-Threo-aldose 1-dehydrogenase (1.1.1.122)	101/01173	. . L-Rhamnose 1-dehydrogenase (1.1.1.173)
101/01123	. . Sorbose 5-dehydrogenase (NADP+) (1.1.1.123)	101/01174	. . Cyclohexane-1,2-diol dehydrogenase (1.1.1.174)
101/01124	. . Fructose 5-dehydrogenase (NADP+) (1.1.1.124)	101/01175	. . D-Xylose 1-dehydrogenase (1.1.1.175)
101/01125	. . 2-Deoxy-D-gluconate 3-dehydrogenase (1.1.1.125)	101/01176	. . 12-Alpha-hydroxysteroid dehydrogenase (1.1.1.176)
101/01126	. . 2-Dehydro-3-deoxy-D-gluconate 6-dehydrogenase (1.1.1.126)	101/01177	. . Glycerol-3-phosphate 1-dehydrogenase (NADP+) (1.1.1.177)
101/01127	. . 2-Dehydro-3-deoxy-D-gluconate 5-dehydrogenase (1.1.1.127)	101/01178	. . 3-Hydroxy-2-methylbutyryl-CoA dehydrogenase (1.1.1.178)
101/01129	. . L-Threonate 3-dehydrogenase (1.1.1.129)	101/01179	. . D-Xylose 1-dehydrogenase (NADP+) (1.1.1.179)
101/0113	. . 3-Dehydro-L-gulonate 2-dehydrogenase (1.1.1.130)	101/01181	. . Cholest-5-ene-3-beta,7-alpha-diol 3-beta-dehydrogenase (1.1.1.181)
101/01131	. . Mannuronate reductase (1.1.1.131)	101/01182	. . Fenchol dehydrogenase (1.1.1.182) <a href="#">(C12Y 101/01198, C12Y 101/01227, C12Y 101/01228 take precedence)</a>
101/01132	. . GDP-mannose 6-dehydrogenase (1.1.1.132)	101/01183	. . Geraniol dehydrogenase (1.1.1.183)
101/01133	. . dTDP-4-dehydrorhamnose reductase (1.1.1.133)	101/01184	. . Carbonyl reductase (NADPH) (1.1.1.184)
101/01134	. . dTDP-6-deoxy-L-talose 4-dehydrogenase (1.1.1.134)	101/01185	. . L-Glycol dehydrogenase (1.1.1.185)
101/01135	. . GDP-6-deoxy-D-talose 4-dehydrogenase (1.1.1.135)	101/01186	. . dTDP-galactose 6-dehydrogenase (1.1.1.186)
101/01136	. . UDP-N-acetylglucosamine 6-dehydrogenase (1.1.1.136)	101/01187	. . GDP-4-dehydro-D-rhamnose reductase (1.1.1.187)
101/01137	. . Ribitol-5-phosphate 2-dehydrogenase (1.1.1.137)	101/01188	. . Prostaglandin-F synthase (1.1.1.188)
101/01138	. . Mannitol 2-dehydrogenase (NADP+) (1.1.1.138)	101/01189	. . Prostaglandin-E(2) 9-reductase (1.1.1.189)
101/0114	. . Sorbitol-6-phosphate 2-dehydrogenase (1.1.1.140)	101/0119	. . Indole-3-acetaldehyde reductase (NADH) (1.1.1.190)
101/01141	. . 15-Hydroxyprostaglandin dehydrogenase (NAD+) (1.1.1.141)		
101/01142	. . D-Pinitol dehydrogenase (1.1.1.142)		
101/01143	. . Sequoyitol dehydrogenase (1.1.1.143)		
101/01144	. . Perillyl-alcohol dehydrogenase (1.1.1.144)		
101/01145	. . 3-Beta-hydroxy-DELTA5-steroid dehydrogenase (1.1.1.145)		
101/01146	. . 11-Beta-hydroxysteroid dehydrogenase (1.1.1.146)		

- 101/01191 . . Indole-3-acetaldehyde reductase (NADPH) (1.1.1.191)
- 101/01192 . . Long-chain-alcohol dehydrogenase (1.1.1.192)
- 101/01193 . . 5-Amino-6-(5-phosphoribosylamino)uracil reductase (1.1.1.193)
- 101/01194 . . Coniferyl-alcohol dehydrogenase (1.1.1.194)
- 101/01195 . . Cinnamyl-alcohol dehydrogenase (1.1.1.195)
- 101/01196 . . 15-Hydroxyprostaglandin-D dehydrogenase (NADP+) (1.1.1.196)
- 101/01197 . . 15-Hydroxyprostaglandin dehydrogenase (NADP+) (1.1.1.197)
- 101/01198 . . (+)-Borneol dehydrogenase (1.1.1.198)
- 101/01199 . . (S)-Usnate reductase (1.1.1.199)
- 101/012 . . Aldose-6-phosphate reductase (NADPH) (1.1.1.200)
- 101/01201 . . 7-Beta-hydroxysteroid dehydrogenase (NADP+) (1.1.1.201)
- 101/01202 . . 1,3-Propanediol dehydrogenase (1.1.1.202)
- 101/01203 . . Uronate dehydrogenase (1.1.1.203)
- 101/01205 . . IMP dehydrogenase (1.1.1.205)
- 101/01206 . . Tropinone reductase I (1.1.1.206)
- 101/01207 . . (-)-Menthol dehydrogenase (1.1.1.207)
- 101/01208 . . (+)-Neomenthol dehydrogenase (1.1.1.208)
- 101/01209 . . 3 (or 17)-Alpha-hydroxysteroid dehydrogenase (1.1.1.209)
- 101/0121 . . 3-Beta (or 20-alpha)-hydroxysteroid dehydrogenase (1.1.1.210)
- 101/01211 . . Long-chain-3-hydroxyacyl-CoA dehydrogenase (1.1.1.211)
- 101/01212 . . 3-Oxoacyl-[acyl-carrier-protein] reductase (NADH) (1.1.1.212)
- 101/01213 . . 3Alpha-hydroxysteroid 3-dehydrogenase (A-specific) (1.1.1.213)
- 101/01214 . . 2-Dehydropantolactone reductase (B-specific) (1.1.1.214)
- 101/01215 . . Gluconate 2-dehydrogenase (1.1.1.215)
- 101/01216 . . Farnesol dehydrogenase (1.1.1.216)
- 101/01217 . . Benzyl-2-methyl-hydroxybutyrate dehydrogenase (1.1.1.217)
- 101/01218 . . Morphine 6-dehydrogenase (1.1.1.218)
- 101/01219 . . Dihydrokaempferol 4-reductase (1.1.1.219), i.e. dihydroflavonol-4-reductase
- 101/0122 . . 6-Pyruvoyltetrahydropterin 2'-reductase (1.1.1.220)
- 101/01221 . . Vomifoliol dehydrogenase (1.1.1.221)
- 101/01222 . . (R)-4-Hydroxyphenyllactate dehydrogenase (1.1.1.222)
- 101/01223 . . Isopiperitenol dehydrogenase (1.1.1.223)
- 101/01224 . . Mannose-6-phosphate 6-reductase (1.1.1.224)
- 101/01225 . . Chlordecone reductase (1.1.1.225)
- 101/01226 . . 4-Hydroxycyclohexanecarboxylate dehydrogenase (1.1.1.226)
- 101/01227 . . (-)-Borneol dehydrogenase (1.1.1.227)
- 101/01228 . . (+)-Sabinol dehydrogenase (1.1.1.228)
- 101/01229 . . Diethyl 2-methyl-3-oxosuccinate reductase (1.1.1.229)
- 101/0123 . . 3-Alpha-hydroxyglycylrrhetinate dehydrogenase (1.1.1.230)
- 101/01231 . . 15-Hydroxyprostaglandin-I dehydrogenase (NADP+) (1.1.1.231)
- 101/01232 . . 15-Hydroxyicosatetraenoate dehydrogenase (1.1.1.232)
- 101/01233 . . N-Acylmannosamine 1-dehydrogenase (1.1.1.233)
- 101/01234 . . Flavanone 4-reductase (1.1.1.234)
- 101/01235 . . 8-Oxocoformycin reductase (1.1.1.235)
- 101/01236 . . Tropinone reductase II (1.1.1.236)
- 101/01237 . . Hydroxyphenylpyruvate reductase (1.1.1.237)
- 101/01238 . . 12-Beta-hydroxysteroid dehydrogenase (1.1.1.238)
- 101/01239 . . 3Alpha(17beta)-hydroxysteroid dehydrogenase (NAD+) (1.1.1.239), i.e. testosterone 17beta-dehydrogenase
- 101/0124 . . N-Acetylhexosamine 1-dehydrogenase (1.1.1.240)
- 101/01241 . . 6-Endo-hydroxycineole dehydrogenase (1.1.1.241)
- 101/01243 . . Carveol dehydrogenase (1.1.1.243)
- 101/01244 . . Methanol dehydrogenase (1.1.1.244)
- 101/01245 . . Cyclohexanol dehydrogenase (1.1.1.245)
- 101/01246 . . Pterocarpin synthase (1.1.1.246)
- 101/01247 . . Codeinone reductase (NADPH) (1.1.1.247)
- 101/01248 . . Salutaridine reductase (NADPH) (1.1.1.248)
- 101/0125 . . D-Arabinitol 2-dehydrogenase (1.1.1.250)
- 101/01251 . . Galactitol-1-phosphate 5-dehydrogenase (1.1.1.251)
- 101/01252 . . Tetrahydroxynaphthalene reductase (1.1.1.252)
- 101/01254 . . (S)-Carnitine 3-dehydrogenase (1.1.1.254)
- 101/01255 . . Mannitol dehydrogenase (1.1.1.255)
- 101/01256 . . Fluoren-9-ol dehydrogenase (1.1.1.256)
- 101/01257 . . 4-(Hydroxymethyl)benzenesulfonate dehydrogenase (1.1.1.257)
- 101/01258 . . 6-Hydroxyhexanoate dehydrogenase (1.1.1.258)
- 101/01259 . . 3-Hydroxypimeloyl-CoA dehydrogenase (1.1.1.259)
- 101/0126 . . Sulcatone reductase (1.1.1.260)
- 101/01261 . . sn-Glycerol-1-phosphate dehydrogenase (1.1.1.261)
- 101/01262 . . 4-Hydroxythreonine-4-phosphate dehydrogenase (1.1.1.262)
- 101/01263 . . 1,5-Anhydro-D-fructose reductase (1.1.1.263)
- 101/01264 . . L-Idonate 5-dehydrogenase (1.1.1.264), i.e. L-idonate 2-dehydrogenase
- 101/01265 . . 3-Methylbutanal reductase (1.1.1.265)
- 101/01266 . . dTDP-4-dehydro-6-deoxyglucose reductase (1.1.1.266)
- 101/01267 . . 1-Deoxy-D-xylulose-5-phosphate reductoisomerase (1.1.1.267)
- 101/01268 . . 2-(R)-Hydroxypropyl-CoM dehydrogenase (1.1.1.268)
- 101/01269 . . 2-(S)-Hydroxypropyl-CoM dehydrogenase (1.1.1.269)
- 101/0127 . . 3Beta-hydroxysteroid 3-dehydrogenase (1.1.1.270)
- 101/01271 . . GDP-L-fucose synthase (1.1.1.271)
- 101/01272 . . (R)-2-Hydroxyacid dehydrogenase (1.1.1.272)
- 101/01273 . . Velloimine dehydrogenase (1.1.1.273)
- 101/01274 . . 2,5-Didehydrogluconate reductase (1.1.1.274), i.e. 2,5-diketo-D-gluconic acid reductase
- 101/01275 . . (+)-Trans-carveol dehydrogenase (1.1.1.275)
- 101/01276 . . Serine 3-dehydrogenase (1.1.1.276)
- 101/01277 . . 3-Beta-hydroxy-5-beta-steroid dehydrogenase (1.1.1.277)
- 101/01278 . . 3-Beta-hydroxy-5-alpha-steroid dehydrogenase (1.1.1.278)

- 101/01279 . . (R)-3-Hydroxyacid-ester dehydrogenase (1.1.1.279)
- 101/0128 . . (S)-3-Hydroxyacid-ester dehydrogenase (1.1.1.280)
- 101/01281 . . GDP-4-dehydro-6-deoxy-D-mannose reductase (1.1.1.281)
- 101/01282 . . Quinate/shikimate dehydrogenase (1.1.1.282)
- 101/01283 . . Methylglyoxal reductase (NADPH-dependent) (1.1.1.283)
- 101/01284 . . S-(hydroxymethyl)glutathione dehydrogenase (1.1.1.284), i.e. nitroreductase
- 101/01285 . . 3"-Deamino-3"-oxonicotianamine reductase (1.1.1.285)
- 101/01286 . . Isocitrate--homoisocitrate dehydrogenase (1.1.1.286)
- 101/01287 . . D-Arabinitol dehydrogenase (NADP+) (1.1.1.287)
- 101/01288 . . Xanthoxin dehydrogenase (1.1.1.288)
- 101/01289 . . Sorbose reductase (1.1.1.289)
- 101/0129 . . 4-Phosphoerythronate dehydrogenase (1.1.1.290)
- 101/01291 . . 2-Hydroxymethylglutarate dehydrogenase (1.1.1.291)
- 101/01292 . . 1,5-Anhydro-D-fructose reductase (1,5-anhydro-D-mannitol-forming) (1.1.1.292)
- 101/01294 . . Chlorophyll(ide) b reductase (1.1.1.294)
- 101/01295 . . Momilactone-A synthase (1.1.1.295)
- 101/01296 . . Dihydrocarveol dehydrogenase (1.1.1.296)
- 101/01297 . . Limonene-1,2-diol dehydrogenase (1.1.1.297)
- 101/01298 . . 3-Hydroxypropionate dehydrogenase (NADP+) (1.1.1.298)
- 101/01299 . . Malate dehydrogenase (NAD(P)+)(1.1.1.299)
- 101/013 . . NADP-retinol dehydrogenase (1.1.1.300)
- 101/01301 . . D-Arabitol-phosphate dehydrogenase (1.1.1.301)
- 101/01302 . . 2,5-Diamino-6-(ribosylamino)-4(3H)-pyrimidinone 5'-phosphate reductase (1.1.1.302)
- 101/01303 . . Diacetyl reductase, [(R)-acetoin forming] (1.1.1.303)
- 101/01304 . . Diacetyl reductase, (S)-acetoin forming (1.1.1.304)
- 101/01305 . . UDP-glucuronic acid dehydrogenase (UDP-4-keto-hexauronic acid decarboxylating)(1.1.1.305)
- 101/01306 . . S-(Hydroxymethyl)mycothiol dehydrogenase (1.1.1.306)
- 101/01307 . . D-Xylose reductase (1.1.1.307)
- 101/01308 . . Sulfopropanediol 3-dehydrogenase (1.1.1.308)
- 101/01309 . . Phosphonoacetaldehyde reductase (NADH) (1.1.1.309)
- 101/0131 . . (S)-Sulfolactate dehydrogenase (1.1.1.310)
- 101/01311 . . (S)-1-Phenylethanol dehydrogenase (1.1.1.311)
- 101/01312 . . 2-Hydroxy-4-carboxymuconate semialdehyde hemiacetal dehydrogenase (1.1.1.312)
- 101/01313 . . Sulfoacetaldehyde reductase (1.1.1.313)
- 101/01314 . . Germacrene A alcohol dehydrogenase (1.1.1.314)
- 101/01315 . . 11-Cis-retinol dehydrogenase (1.1.1.315)
- 101/01316 . . L-Galactose 1-dehydrogenase (1.1.1.316)
- 101/01317 . . Perakine reductase (1.1.1.317)
- 101/01318 . . Eugenol synthase (1.1.1.318)
- 101/01319 . . Isoeugenol synthase (1.1.1.319)
- 101/0132 . . Benzil reductase [(S)-benzoin forming] (1.1.1.320)
- 101/01321 . . Benzil reductase [(R)-benzoin forming] (1.1.1.321)
- 101/01322 . . (-)-Endo-fenchol dehydrogenase (1.1.1.322)
- 101/01323 . . (+)-Thujan-3-ol dehydrogenase (1.1.1.323)
- 101/01324 . . 8-Hydroxygeraniol dehydrogenase (1.1.1.324)
- 101/01325 . . Sepiapterin reductase (L-threo-7,8-dihydrobiopterin forming) (1.1.1.325)
- 101/01326 . . Zerumbone synthase (1.1.1.326)
- 101/01327 . . 5-Exo-hydroxycamphor dehydrogenase (1.1.1.327)
- 101/01328 . . Nicotine blue oxidoreductase (1.1.1.328)
- 101/01329 . . 2-Deoxy-scylo-inosamine dehydrogenase (1.1.1.329)
- 101/0133 . . Very-long-chain 3-oxoacyl-CoA reductase (1.1.1.330)
- 101/01331 . . Secoisolariciresinol dehydrogenase (1.1.1.331)
- 101/01332 . . Chanoclavine-I dehydrogenase (1.1.1.332)
- 101/01333 . . Decaprenylphospho-beta-D-erythro-pentofuranosid-2-ulose 2-reductase (1.1.1.333)
- 101/01334 . . Methylecgonone reductase (1.1.1.334)
- 101/01335 . . UDP-N-acetyl-2-amino-2-deoxyglucuronate dehydrogenase (1.1.1.335)
- 101/01336 . . UDP-N-acetyl-D-mannosamine dehydrogenase (1.1.1.336)
- 101/01337 . . L-2-Hydroxycarboxylate dehydrogenase (NAD+) (1.1.1.337)
- 101/01338 . . (2R)-3-Sulfolactate dehydrogenase (NADP+) (1.1.1.338)
- 101/01339 . . dTDP-6-deoxy-L-talose 4-dehydrogenase (NAD+) (1.1.1.339)
- 101/0134 . . 1-Deoxy-11beta-hydroxypentalenate dehydrogenase (1.1.1.340)
- 101/01341 . . CDP-abequose synthase (1.1.1.341)
- 101/01342 . . CDP-paratose synthase (1.1.1.342)
- 101/01817 . . Sulfoacetaldehyde reductase (1.1.1.B17)
- 101/02 . . with a cytochrome as acceptor (1.1.2)
- 101/02002 . . Mannitol dehydrogenase (cytochrome) (1.1.2.2)
- 101/02003 . . L-Lactate dehydrogenase (cytochrome) (1.1.2.3)
- 101/02004 . . D-lactate dehydrogenase (cytochrome) (1.1.2.4)
- 101/02005 . . D-Lactate dehydrogenase (cytochrome c-553) (1.1.2.5)
- 101/02006 . . Polyvinyl alcohol dehydrogenase (cytochrome) (1.1.2.6)
- 101/02007 . . Methanol dehydrogenase (cytochrome c)(1.1.2.7)
- 101/02008 . . Alcohol dehydrogenase (cytochrome c)(1.1.2.8)
- 101/03 . . with a oxygen as acceptor (1.1.3)
- 101/03003 . . Malate oxidase (1.1.3.3)
- 101/03004 . . Glucose oxidase (1.1.3.4)
- 101/03005 . . Hexose oxidase (1.1.3.5)
- 101/03006 . . Cholesterol oxidase (1.1.3.6)
- 101/03007 . . Aryl-alcohol oxidase (1.1.3.7)
- 101/03008 . . L-Gulonolactone oxidase (1.1.3.8)
- 101/03009 . . Galactose oxidase (1.1.3.9)
- 101/0301 . . Pyranose oxidase (1.1.3.10)
- 101/03011 . . L-sorbose oxidase (1.1.3.11)
- 101/03012 . . Pyridoxine 4-oxidase (1.1.3.12)
- 101/03013 . . Alcohol oxidase (1.1.3.13)
- 101/03014 . . Catechol oxidase (dimerizing) (1.1.3.14)
- 101/03015 . . (S)-2-Hydroxy-acid oxidase (1.1.3.15)
- 101/03016 . . Ecdysone oxidase (1.1.3.16)
- 101/03017 . . Choline oxidase (1.1.3.17)
- 101/03018 . . Secondary-alcohol oxidase (1.1.3.18)
- 101/03019 . . 4-Hydroxymandelate oxidase (1.1.3.19)
- 101/0302 . . Long-chain-alcohol oxidase (1.1.3.20)
- 101/03021 . . Glycerol-3-phosphate-oxidase (1.1.3.21)

- 101/03023 . . Thiamine oxidase (1.1.3.23)  
 101/03027 . . Hydroxyphytanate oxidase (1.1.3.27)  
 101/03028 . . Nucleoside oxidase (1.1.3.28)  
 101/03029 . . N-Acylhexosamine oxidase (1.1.3.29)  
 101/0303 . . Polyvinyl-alcohol oxidase (1.1.3.30)  
 101/03037 . . D-Arabinono-1,4-lactone oxidase (1.1.3.37)  
 101/03038 . . Vanillyl-alcohol oxidase (1.1.3.38)  
 101/03039 . . Nucleoside oxidase (H<sub>2</sub>O<sub>2</sub>-forming) (1.1.3.39)  
 101/0304 . . D-Mannitol oxidase (1.1.3.40)  
 101/03041 . . Alditol oxidase (1.1.3.41)  
 101/03042 . . Prosolanapyrone-II oxidase (1.1.3.42)  
 101/03043 . . Paromamine 6'-oxidase (1.1.3.43)  
 101/03044 . . 6'''-Hydroxyneomycin C oxidase (1.1.3.44)  
 101/04 . . with a disulfide as acceptor (1.1.4)  
 101/04001 . . Vitamin-K-epoxide reductase (warfarin-sensitive) (1.1.4.1)  
 101/04002 . . Vitamin-K-epoxide reductase (warfarin-insensitive) (1.1.4.2)  
 101/05 . . with a quinone or similar compound as acceptor (1.1.5)  
 101/05002 . . Quinoprotein glucose dehydrogenase (1.1.5.2)  
 101/05003 . . Glycerol-3-phosphate dehydrogenase (1.1.5.3)  
 101/05004 . . Malate dehydrogenase (quinone) (1.1.5.4)  
 101/05005 . . Alcohol dehydrogenase (quinone) (1.1.5.5)  
 101/05006 . . Formate dehydrogenase-N (1.1.5.6)  
 101/05007 . . Cyclic alcohol dehydrogenase (quinone) (1.1.5.7)  
 101/05008 . . Quinate dehydrogenase (quinone) (1.1.5.8)  
 101/09 . . with a copper protein as acceptor (1.1.9)  
 101/09001 . . Alcohol dehydrogenase (azurin) (1.1.9.1)  
 101/98 . . with other, known, acceptors (1.1.98)  
 101/98002 . . Glucose-6-phosphate dehydrogenase (coenzyme-F420) (1.1.98.2)  
 101/98003 . . Decaprenylphospho-beta-D-ribofuranose 2-oxidase (1.1.98.3)  
 101/99 . . with other acceptors (1.1.99)  
 101/99001 . . Choline dehydrogenase (1.1.99.1)  
 101/99002 . . 2-Hydroxyglutarate dehydrogenase (1.1.99.2)  
 101/99003 . . Gluconate 2-dehydrogenase (acceptor) (1.1.99.3)  
 101/99004 . . Dehydrogluconate dehydrogenase (1.1.99.4)  
 101/99006 . . D-2-Hydroxy-acid dehydrogenase (1.1.99.6)  
 101/99007 . . Lactate--malate transhydrogenase (1.1.99.7)  
 101/99008 . . Alcohol dehydrogenase (acceptor) (1.1.99.8) ([C12Y 101/02007](#), [C12Y 101/02008](#) take precedence)  
 101/99009 . . Pyridoxine 5-dehydrogenase (1.1.99.9)  
 101/9901 . . Glucose dehydrogenase (acceptor) (1.1.99.10)  
 101/99011 . . Fructose 5-dehydrogenase (1.1.99.11)  
 101/99012 . . Sorbose dehydrogenase (1.1.99.12)  
 101/99013 . . Glucoside 3-dehydrogenase (1.1.99.13)  
 101/99014 . . Glycolate dehydrogenase (1.1.99.14)  
 101/99018 . . Cellobiose oxidase (1.1.99.18)  
 101/9902 . . Alkan-1-ol dehydrogenase (acceptor) (1.1.99.20)  
 101/99021 . . D-Sorbitol dehydrogenase (acceptor) (1.1.99.21)  
 101/99022 . . Glycerol dehydrogenase (acceptor) (1.1.99.22)  
 101/99024 . . Hydroxyacid-oxoacid transhydrogenase (1.1.99.24)  
 101/99026 . . 3-Hydroxycyclohexanone dehydrogenase (1.1.99.26)  
 101/99027 . . (R)-Pantolactone dehydrogenase (flavin) (1.1.99.27)  
 101/99028 . . Glucose-fructose oxidoreductase (1.1.99.28)  
 101/99029 . . Pyranose dehydrogenase (acceptor) (1.1.99.29)  
 101/9903 . . 2-Oxo-acid reductase (1.1.99.30)  
 101/99031 . . (S)-Mandelate dehydrogenase (1.1.99.31)  
 101/99032 . . L-Sorbose 1-dehydrogenase (1.1.99.32)  
 101/99033 . . Formate dehydrogenase (acceptor) (1.1.99.33)  
 101/99035 . . Soluble quinoprotein glucose dehydrogenase (1.1.99.35)  
 101/99036 . . NDMA-dependent alcohol dehydrogenase (1.1.99.36)  
 101/99037 . . NDMA-dependent methanol dehydrogenase (1.1.99.37)  
 101/99038 . . 2-Deoxy-scylo-inosamine dehydrogenase (SAM-dependent) (1.1.99.38)
- 102/00 Oxidoreductases acting on the aldehyde or oxo group of donors (1.2)**
- 102/01 . . with NAD+ or NADP+ as acceptor (1.2.1)  
 102/01001 . . Formaldehyde dehydrogenase (glutathione) (1.2.1.1) ([C12Y 101/01284](#), [C12Y 404/01022](#) take precedence)  
 102/01002 . . Formate dehydrogenase (1.2.1.2)  
 102/01003 . . Aldehyde dehydrogenase (NAD+) (1.2.1.3)  
 102/01004 . . Aldehyde dehydrogenase (NADP+) (1.2.1.4)  
 102/01005 . . Aldehyde dehydrogenase [NAD(P)+] (1.2.1.5)  
 102/01007 . . Benzaldehyde dehydrogenase (NADP+) (1.2.1.7)  
 102/01008 . . Betaine-aldehyde dehydrogenase (NADH) (1.2.1.8)  
 102/01009 . . Glyceraldehyde-3-phosphate dehydrogenase (NADP+) (1.2.1.9)  
 102/0101 . . Acetaldehyde dehydrogenase (acetylating) (1.2.1.10)  
 102/01011 . . Aspartate-semialdehyde dehydrogenase (1.2.1.11)  
 102/01012 . . Glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) (1.2.1.12)  
 102/01013 . . Glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (1.2.1.13)  
 102/01015 . . Malonate-semialdehyde dehydrogenase (1.2.1.15)  
 102/01016 . . Succinate-semialdehyde dehydrogenase [NAD(P)+] (1.2.1.16)  
 102/01017 . . Glyoxylate dehydrogenase (acylating) (1.2.1.17)  
 102/01018 . . Malonate-semialdehyde dehydrogenase (acetylating) (1.2.1.18)  
 102/01019 . . Aminobutyraldehyde dehydrogenase (1.2.1.19)  
 102/0102 . . Glutarate-semialdehyde dehydrogenase (1.2.1.20)  
 102/01021 . . Glycolaldehyde dehydrogenase (1.2.1.21)  
 102/01022 . . Lactaldehyde dehydrogenase (1.2.1.22)  
 102/01023 . . 2-Oxoaldehyde dehydrogenase (NAD+) (1.2.1.23)  
 102/01024 . . Succinate-semialdehyde dehydrogenase (NAD+) (1.2.1.24)  
 102/01025 . . 2-Oxoisovalerate dehydrogenase (acylating) (1.2.1.25)  
 102/01026 . . 2,5-Dioxoaldehyde dehydrogenase (1.2.1.26)  
 102/01027 . . Methylmalonate-semialdehyde dehydrogenase (acylating) (1.2.1.27)  
 102/01028 . . Benzaldehyde dehydrogenase (NAD+) (1.2.1.28)  
 102/01029 . . Aryl-aldehyde dehydrogenase (1.2.1.29)  
 102/0103 . . Aryl-aldehyde dehydrogenase (NADP+) (1.2.1.30)  
 102/01031 . . L-Amino adipate-semialdehyde dehydrogenase (1.2.1.31), i.e. alpha-amino adipate reductase  
 102/01032 . . Aminomuconate-semialdehyde dehydrogenase (1.2.1.32)  
 102/01033 . . (R)-Dehydropantoate dehydrogenase (1.2.1.33)  
 102/01036 . . Retinal dehydrogenase (1.2.1.36)

- 102/01038 . . N-Acetyl-gamma-glutamyl-phosphate reductase (1.2.1.38)
- 102/01039 . . Phenylacetaldehyde dehydrogenase (1.2.1.39)
- 102/01041 . . Glutamate-5-semialdehyde dehydrogenase (1.2.1.41)
- 102/01042 . . Hexadecanal dehydrogenase (acylating) (1.2.1.42), i.e. fatty acyl-CoA reductase
- 102/01043 . . Formate dehydrogenase (NADP+) (1.2.1.43)
- 102/01044 . . Cinnamoyl-CoA reductase (1.2.1.44)
- 102/01046 . . Formaldehyde dehydrogenase (1.2.1.46)
- 102/01047 . . 4-Trimethylammoniumbutyraldehyde dehydrogenase (1.2.1.47)
- 102/01048 . . Long-chain-aldehyde dehydrogenase (1.2.1.48)
- 102/01049 . . 2-Oxoaldehyde dehydrogenase (NADP+) (1.2.1.49)
- 102/0105 . . Long-chain-fatty-acyl-CoA reductase (1.2.1.50)
- 102/01051 . . Pyruvate dehydrogenase (NADP+) (1.2.1.51)
- 102/01052 . . Oxoglutarate dehydrogenase (NADP+) (1.2.1.52)
- 102/01053 . . 4-Hydroxyphenylacetaldehyde dehydrogenase (1.2.1.53)
- 102/01054 . . Gamma-guanidinobutyraldehyde dehydrogenase (1.2.1.54)
- 102/01057 . . Butanal dehydrogenase (1.2.1.57)
- 102/01058 . . Phenylglyoxylate dehydrogenase (acylating) (1.2.1.58)
- 102/01059 . . Glyceraldehyde-3-phosphate dehydrogenase (NAD(P)+)(phosphorylating) (1.2.1.59)
- 102/0106 . . 5-Carboxymethyl-2-hydroxymuconic-semialdehyde dehydrogenase (1.2.1.60)
- 102/01061 . . 4-Hydroxymuconic-semialdehyde dehydrogenase (1.2.1.61)
- 102/01062 . . 4-Formylbenzenesulfonate dehydrogenase (1.2.1.62)
- 102/01063 . . 6-Oxohexanoate dehydrogenase (1.2.1.63)
- 102/01064 . . 4-Hydroxybenzaldehyde dehydrogenase (1.2.1.64)
- 102/01065 . . Salicylaldehyde dehydrogenase (1.2.1.65)
- 102/01067 . . Vanillin dehydrogenase (1.2.1.67)
- 102/01068 . . Coniferyl-aldehyde dehydrogenase (1.2.1.68)
- 102/01069 . . Fluoroacetaldehyde dehydrogenase (1.2.1.69)
- 102/0107 . . Glutamyl-tRNA reductase (1.2.1.70)
- 102/01071 . . Succinylglutamate-semialdehyde dehydrogenase (1.2.1.71)
- 102/01072 . . Erythrose-4-phosphate dehydrogenase (1.2.1.72)
- 102/01073 . . Sulfoacetaldehyde dehydrogenase (1.2.1.73)
- 102/01074 . . Abieta-7,13-dien-18-al dehydrogenase (1.2.1.74)
- 102/01075 . . Malonyl CoA reductase (malonate semialdehyde-forming)(1.2.1.75)
- 102/01076 . . Succinate-semialdehyde dehydrogenase (acetylating) (1.2.1.76)
- 102/01077 . . 3,4-Dehydrodipyl-CoA semialdehyde dehydrogenase (NADP+) (1.2.1.77)
- 102/01078 . . 2-Formylbenzoate dehydrogenase (1.2.1.78)
- 102/01079 . . Succinate-semialdehyde dehydrogenase (NADP+) (1.2.1.79)
- 102/0108 . . Long-chain acyl-[acyl-carrier-protein] reductase (1.2.1.80)
- 102/01081 . . Sulfoacetaldehyde dehydrogenase (acylating) (1.2.1.81)
- 102/01082 . . Beta-apo-4'-carotenal oxygenase (1.2.1.82)
- 102/01083 . . 3-Succinoylsemialdehyde-pyridine dehydrogenase (1.2.1.83)
- 102/01084 . . Alcohol-forming fatty acyl-CoA reductase (1.2.1.84)
- 102/01085 . . 2-Hydroxymuconate-6-semialdehyde dehydrogenase (1.2.1.85)
- 102/01086 . . Geranial dehydrogenase (1.2.1.86)
- 102/02 . . with a cytochrome as acceptor (1.2.2)
- 102/02001 . . Formate dehydrogenase (cytochrome) (1.2.2.1)
- 102/02003 . . Formate dehydrogenase (cytochrome c-553) (1.2.2.3)
- 102/02004 . . Carbon-monoxide dehydrogenase (cytochrome b-561)(1.2.2.4)
- 102/03 . . with oxygen as acceptor (1.2.3)
- 102/03001 . . Aldehyde oxidase (1.2.3.1), i.e. retinal oxidase
- 102/03003 . . Pyruvate oxidase (1.2.3.3)
- 102/03004 . . Oxalate oxidase (1.2.3.4)
- 102/03005 . . Glyoxylate oxidase (1.2.3.5)
- 102/03006 . . Pyruvate oxidase (CoA-acetylating) (1.2.3.6)
- 102/03007 . . Indole-3-acetaldehyde oxidase (1.2.3.7)
- 102/03008 . . Pyridoxal oxidase (1.2.3.8)
- 102/03009 . . Aryl-aldehyde oxidase (1.2.3.9)
- 102/03013 . . 4-Hydroxyphenylpyruvate oxidase (1.2.3.13)
- 102/03014 . . Abscisic-aldehyde oxidase (1.2.3.14)
- 102/04 . . with a disulfide as acceptor (1.2.4)
- 102/04001 . . Pyruvate dehydrogenase (acetyl-transferring) (1.2.4.1)
- 102/04002 . . Oxoglutarate dehydrogenase (succinyl-transferring) (1.2.4.2), i.e. alpha-ketoglutarat dehydrogenase
- 102/04004 . . 3-Methyl-2-oxobutanoate dehydrogenase (2-methylpropanoyl-transferring) (1.2.4.4), i.e. branched-chain-alpha-ketoacid dehydrogenase
- 102/05 . . with a quinone or similar compound as acceptor (1.2.5)
- 102/05001 . . Pyruvate dehydrogenase (quinone) (1.2.5.1)
- 102/07 . . with an iron-sulfur protein as acceptor (1.2.7)
- 102/07001 . . Pyruvate synthase (1.2.7.1), i.e. pyruvate ferredoxin oxidoreductase
- 102/07002 . . 2-Oxobutyrate synthase (1.2.7.2)
- 102/07003 . . 2-Oxoglutarate synthase (1.2.7.3)
- 102/07004 . . Carbon-monoxide dehydrogenase (ferredoxin) (1.2.7.4)
- 102/07005 . . Aldehyde ferredoxin oxidoreductase (1.2.7.5)
- 102/07006 . . Glyceraldehyde-3-phosphate dehydrogenase (ferredoxin) (1.2.7.6)
- 102/07007 . . 3-Methyl-2-oxobutanoate dehydrogenase (ferredoxin) (1.2.7.7)
- 102/07008 . . Indolepyruvate ferredoxin oxidoreductase (1.2.7.8)
- 102/0701 . . Oxalate oxidoreductase (1.2.7.10)
- 102/99 . . with other acceptors (1.2.99)
- 102/99002 . . Carbon-monoxide dehydrogenase (acceptor) (1.2.99.2)
- 102/99003 . . Aldehyde dehydrogenase (pyrroloquinoline-quinone) (1.2.99.3)
- 102/99004 . . Formaldehyde dismutase (1.2.99.4)
- 102/99005 . . Formylmethanofuran dehydrogenase (1.2.99.5)
- 102/99006 . . Carboxylate reductase (1.2.99.6)
- 102/99007 . . Aldehyde dehydrogenase (FAD-independent) (1.2.99.7)
- 103/00 Oxidoreductases acting on the CH-CH group of donors (1.3)**
- 103/01 . . with NAD+ or NADP+ as acceptor (1.3.1)

- 103/01001 . . Dihydropyrimidine dehydrogenase (NAD+) (1.3.1.1)
- 103/01002 . . Dihydropyrimidine dehydrogenase (NADP+) (1.3.1.2)
- 103/01003 . . DELTA4-3-oxosteroid 5-beta-reductase (1.3.1.3)
- 103/01005 . . Cucurbitacin DELTA23-reductase (1.3.1.5)
- 103/01006 . . Fumarate reductase (NADH) (1.3.1.6)
- 103/01007 . . Meso-tartrate dehydrogenase (1.3.1.7)
- 103/01008 . . Acyl-CoA dehydrogenase (NADP+) (1.3.1.8)
- 103/01009 . . Enoyl-[acyl-carrier-protein] reductase (NADH) (1.3.1.9)
- 103/0101 . . Enoyl-[acyl-carrier-protein] reductase (NADPH, B-specific)(1.3.1.10)
- 103/01011 . . 2-Coumarate reductase (1.3.1.11)
- 103/01012 . . Prephenate dehydrogenase (1.3.1.12)
- 103/01013 . . Prephenate dehydrogenase (NADP+) (1.3.1.13)
- 103/01014 . . Dihydroorotate dehydrogenase (NAD+) (1.3.1.14)
- 103/01015 . . Dihydroorotate dehydrogenase (NADP+) (1.3.1.15)
- 103/01016 . . Beta-nitroacrylate reductase (1.3.1.16)
- 103/01017 . . 3-Methyleneoxindole reductase (1.3.1.17)
- 103/01018 . . Kynurenate-7,8-dihydrodiol dehydrogenase (1.3.1.18)
- 103/01019 . . Cis-1,2-dihydrobenzene-1,2-diol dehydrogenase (1.3.1.19)
- 103/0102 . . Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase (1.3.1.20)
- 103/01021 . . 7-Dehydrocholesterol reductase (1.3.1.21)
- 103/01022 . . 3-Oxo-5alpha-steroid 4-dehydrogenase (NADP+) (1.3.1.22), i.e. cortisone alpha-reductase
- 103/01024 . . Biliverdin reductase (1.3.1.24)
- 103/01025 . . 1,6-Dihydroxycyclohexa-2,4-diene-1-carboxylate dehydrogenase (1.3.1.25)
- 103/01026 . . Dihydrodipicolinate reductase (1.3.1.26)
- 103/01027 . . 2-Hexadecenal reductase (1.3.1.27)
- 103/01028 . . 2,3-Dihydro-2,3-dihydroxybenzoate dehydrogenase (1.3.1.28)
- 103/01029 . . Cis-1,2-dihydro-1,2-dihydroxynaphthalene dehydrogenase (1.3.1.29)
- 103/01031 . . 2-Enoate reductase (1.3.1.31)
- 103/01032 . . Maleylacetate reductase (1.3.1.32)
- 103/01033 . . Protochlorophyllide reductase (1.3.1.33)
- 103/01034 . . 2,4-dienoyl-CoA reductase (NADPH) (1.3.1.34)
- 103/01035 . . Phosphatidylcholine desaturase (1.3.1.35)
- 103/01036 . . Geissoschizine dehydrogenase (1.3.1.36)
- 103/01037 . . Cis-2-enoyl-CoA reductase (NADPH) (1.3.1.37)
- 103/01038 . . Trans-2-enoyl-CoA reductase (NADPH) (1.3.1.38)
- 103/01039 . . Enoyl-[acyl-carrier-protein] reductase (NADPH, A-specific)(1.3.1.39)
- 103/0104 . . 2-Hydroxy-6-oxo-6-phenylhexa-2,4-dienoate reductase (1.3.1.40)
- 103/01041 . . Xanthommatin reductase (1.3.1.41)
- 103/01042 . . 12-Oxophytodienoate reductase (1.3.1.42), i.e. morphinone-reductase
- 103/01043 . . Arogenate dehydrogenase (1.3.1.43)
- 103/01044 . . Trans-2-enoyl-CoA reductase (NAD+) (1.3.1.44)
- 103/01045 . . 2'-Hydroxyisoflavone reductase (1.3.1.45)
- 103/01046 . . Biochanin-A reductase (1.3.1.46)
- 103/01047 . . Alpha-santonin 1,2-reductase (1.3.1.47)
- 103/01048 . . 15-Oxoprostaglandin 13-oxidase (1.3.1.48)
- 103/01049 . . Cis-3,4-dihydrophenanthrene-3,4-diol dehydrogenase (1.3.1.49)
- 103/01051 . . 2'-Hydroxydaidzein reductase (1.3.1.51)
- 103/01053 . . (3S,4R)-3,4-dihydroxycyclohexa-1,5-diene-1,4-dicarboxylate dehydrogenase (1.3.1.53)
- 103/01054 . . Precorrin-6A reductase (1.3.1.54)
- 103/01056 . . Cis-2,3-dihydrobiphenyl-2,3-diol dehydrogenase (1.3.1.56)
- 103/01057 . . Phloroglucinol reductase (1.3.1.57)
- 103/01058 . . 2,3-Dihydroxy-2,3-dihydro-p-cumate dehydrogenase (1.3.1.58)
- 103/0106 . . Dibenzothiophene dihydrodiol dehydrogenase (1.3.1.60)
- 103/01062 . . Pimeloyl-CoA dehydrogenase (1.3.1.62)
- 103/01063 . . 2,4-Dichlorobenzoyl-CoA reductase (1.3.1.63)
- 103/01064 . . Phthalate 4,5-cis-dihydrodiol dehydrogenase (1.3.1.64)
- 103/01065 . . 5,6-Dihydroxy-3-methyl-2-oxo-1,2,5,6-tetrahydroquinoline dehydrogenase (1.3.1.65)
- 103/01066 . . Cis-dihydroethylcatechol dehydrogenase (1.3.1.66)
- 103/01067 . . Cis-1,2-dihydroxy-4-methylcyclohexa-3,5-diene-1-carboxylate dehydrogenase (1.3.1.67)
- 103/01068 . . 1,2-Dihydroxy-6-methylcyclohexa-3,5-dienecarboxylate dehydrogenase (1.3.1.68)
- 103/01069 . . Zeatin reductase (1.3.1.69)
- 103/0107 . . DELTA14-sterol reductase (1.3.1.70)
- 103/01071 . . DELTA24 (24(1))-sterol reductase (1.3.1.71)
- 103/01072 . . DELTA24-sterol reductase (1.3.1.72)
- 103/01073 . . 1,2-Dihydrovomilenine reductase (1.3.1.73)
- 103/01074 . . 2-Alkenal reductase (1.3.1.74)
- 103/01075 . . Divinyl chlorophyllide a 8-vinyl-reductase (1.3.1.75)
- 103/01076 . . Precorrin-2 dehydrogenase (1.3.1.76)
- 103/01077 . . Anthocyanidin reductase (1.3.1.77)
- 103/01078 . . Arogenate dehydrogenase (NADP+) (1.3.1.78)
- 103/01079 . . Arogenate dehydrogenase (NAD(P)+)(1.3.1.79)
- 103/0108 . . Red chlorophyll catabolite reductase (1.3.1.80)
- 103/01081 . . (+)-Pulegone reductase (1.3.1.81)
- 103/01082 . . (-)-Isopiperitenone reductase (1.3.1.82)
- 103/01083 . . Geranylgeranyl diphosphate reductase (1.3.1.83)
- 103/01084 . . Acrylyl-CoA reductase (NADPH) (1.3.1.84)
- 103/01085 . . Crotonyl-CoA carboxylase/reductase (1.3.1.85)
- 103/01086 . . Crotonyl-CoA reductase (1.3.1.86)
- 103/01087 . . 3-(Cis-5,6-dihydroxycyclohexa-1,3-dien-1-yl)propanoate dehydrogenase (1.3.1.87)
- 103/01088 . . tRNA-dihydrouridine16/17 synthase (NAD(P)+) (1.3.1.88)
- 103/01089 . . tRNA-dihydrouridine47 synthase (NAD(P)+) (1.3.1.89)
- 103/0109 . . tRNA-dihydrouridine20a/20b synthase (NAD(P)+)(1.3.1.90)
- 103/01091 . . tRNA-dihydrouridine20 synthase (NAD(P)+) (1.3.1.91)
- 103/01092 . . Artemisinic aldehyde DELTA11(13)-reductase (1.3.1.92)
- 103/01093 . . Very-long-chain enoyl-CoA reductase (1.3.1.93)
- 103/01094 . . Polyprenol reductase (1.3.1.94)
- 103/01095 . . Acrylyl-CoA reductase (NADH) (1.3.1.95)
- 103/01096 . . Botryococcus squalene synthase (1.3.1.96)
- 103/01097 . . Botryococcene synthase (1.3.1.97)
- 103/02 . . with a cytochrome as acceptor (1.3.2)
- 103/02003 . . L-Galactonolactone dehydrogenase (1.3.2.3)



- 103/03 . . with oxygen as acceptor (1.3.3)
- 103/03003 . . Coproporphyrinogen oxidase (1.3.3.3)
- 103/03004 . . Protoporphyrinogen oxidase (1.3.3.4)
- 103/03005 . . Bilirubin oxidase (1.3.3.5)
- 103/03006 . . Acyl-CoA oxidase (1.3.3.6)
- 103/03007 . . Dihydrouracil oxidase (1.3.3.7)
- 103/03008 . . Tetrahydroberberine oxidase (1.3.3.8)
- 103/03009 . . Secologanin synthase (1.3.3.9)
- 103/0301 . . Tryptophan alpha,beta-oxidase (1.3.3.10)
- 103/03011 . . Pyrroloquinoline-quinone synthase (1.3.3.11)
- 103/03012 . . L-Galactonolactone oxidase (1.3.3.12)
- 103/05 . . with a quinone or related compound as acceptor (1.3.5)
- 103/05001 . . Succinate dehydrogenase (ubiquinone) (1.3.5.1)
- 103/05002 . . Dihydroorotate dehydrogenase (1.3.5.2)
- 103/05003 . . Protoporphyrinogen IX dehydrogenase (menaquinone) (1.3.5.3)
- 103/05004 . . Fumarate reductase (menaquinone) (1.3.5.4)
- 103/05005 . . 15-Cis-phytoene desaturase (1.3.5.5)
- 103/05006 . . 9,9'-Di-cis-zeta-carotene desaturase (1.3.5.6)
- 103/07 . . with an iron-sulfur protein as acceptor (1.3.7)
- 103/07001 . . 6-Hydroxynicotinate reductase (1.3.7.1)
- 103/07002 . . 15,16-Dihydrobiliverdin:ferredoxin oxidoreductase (1.3.7.2)
- 103/07003 . . Phycoerythrobilin:ferredoxin oxidoreductase (1.3.7.3)
- 103/07004 . . Phytochromobilin:ferredoxin oxidoreductase (1.3.7.4)
- 103/07005 . . Phycocyanobilin:ferredoxin oxidoreductase (1.3.7.5)
- 103/07006 . . Phycoerythrobilin synthase (1.3.7.6)
- 103/07007 . . Ferredoxin:protochlorophyllide reductase (ATP-dependent) (1.3.7.7)
- 103/07008 . . Benzoyl-CoA reductase (1.3.7.8)
- 103/07009 . . 4-Hydroxybenzoyl-CoA reductase (1.3.7.9)
- 103/0701 . . Pentalenolactone synthase (1.3.7.10)
- 103/08 . . with flavin as acceptor (1.3.8)
- 103/08001 . . Butyryl-CoA dehydrogenase (1.3.8.1), i.e. short chain acyl-CoA dehydrogenase
- 103/08002 . . 4,4'-Diapophytoene desaturase (1.3.8.2)
- 103/08003 . . (R)-Benzylsuccinyl-CoA dehydrogenase (1.3.8.3)
- 103/08004 . . Isovaleryl-CoA dehydrogenase (1.3.8.4)
- 103/08005 . . 2-Methyl-branched-chain-enoyl-CoA reductase (1.3.8.5)
- 103/08006 . . Glutaryl-CoA dehydrogenase (1.3.8.6)
- 103/08007 . . Medium-chain acyl-CoA dehydrogenase (1.3.8.7)
- 103/08008 . . Long-chain acyl-CoA dehydrogenase (1.3.8.8)
- 103/08009 . . Very-long-chain acyl-CoA dehydrogenase (1.3.8.9)
- 103/98 . . with other, known, acceptors (1.3.98)
- 103/98001 . . Dihydroorotate oxidase (fumarate) (1.3.98.1)
- 103/99 . . with other acceptors (1.3.99)
- 103/99001 . . Succinate dehydrogenase (1.3.99.1)
- 103/99002 . . Butyryl-CoA dehydrogenase (1.3.99.2), i.e. short chain acyl-CoA dehydrogenase
- 103/99003 . . Acyl-CoA dehydrogenase (1.3.99.3)  
([C12Y 103/08007](#), [C12Y 103/08008](#) and [C12Y 103/08009](#) take precedence)
- 103/99004 . . 3-Oxosteroid 1-dehydrogenase (1.3.99.4)
- 103/99005 . . 3-Oxo-5alpha-steroid 4-dehydrogenase (acceptor) (1.3.99.5), i.e. steroid-5alpha-reductase
- 103/99006 . . 3-Oxo-5-beta-steroid 4-dehydrogenase (1.3.99.6)
- 103/99008 . . 2-Furoyl-CoA dehydrogenase (1.3.99.8)
- 103/99012 . . 2-Methylacyl-CoA dehydrogenase (1.3.99.12)
- 103/99014 . . Cyclohexanone dehydrogenase (1.3.99.14)
- 103/99016 . . Isoquinoline 1-oxidoreductase (1.3.99.16)
- 103/99017 . . Quinoline 2-oxidoreductase (1.3.99.17)
- 103/99018 . . Quinaldate 4-oxidoreductase (1.3.99.18)
- 103/99019 . . Quinoline-4-carboxylate 2-oxidoreductase (1.3.99.19)
- 103/99022 . . Coproporphyrinogen dehydrogenase (1.3.99.22)
- 103/99023 . . All-trans-retinol 13,14-reductase (1.3.99.23)
- 103/99024 . . 2-Amino-4-deoxychorismate dehydrogenase (1.3.99.24)
- 103/99025 . . Carvone reductase (1.3.99.25)
- 103/99026 . . All-trans-zeta-carotene desaturase (1.3.99.26)
- 103/99027 . . 1-Hydroxycarotenoid 3,4-desaturase (1.3.99.27)
- 103/99028 . . Phytoene desaturase (neurosporene-forming) (1.3.99.28)
- 103/99029 . . Phytoene desaturase (zeta-carotene-forming) (1.3.99.29)
- 103/9903 . . Phytoene desaturase (3,4-didehydrolycopene-forming) (1.3.99.30)
- 103/99031 . . Phytoene desaturase (lycopene-forming) (1.3.99.31)
- 103/99032 . . Glutaryl-CoA dehydrogenase (non-decarboxylating) (1.3.99.32)
- 104/00 Oxidoreductases acting on the CH-NH<sub>2</sub> group of donors (1.4)**
- 104/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.4.1)
- 104/01001 . . Alanine dehydrogenase (1.4.1.1)
- 104/01002 . . Glutamate dehydrogenase (1.4.1.2)
- 104/01003 . . Glutamate dehydrogenase (NAD(P)<sup>+</sup>) (1.4.1.3)
- 104/01004 . . Glutamate dehydrogenase (NADP<sup>+</sup>) (1.4.1.4)
- 104/01005 . . L-Amino-acid dehydrogenase (1.4.1.5)
- 104/01007 . . Serine 2-dehydrogenase (1.4.1.7)
- 104/01008 . . Valine dehydrogenase (NADP<sup>+</sup>) (1.4.1.8)
- 104/01009 . . Leucine dehydrogenase (1.4.1.9)
- 104/0101 . . Glycine dehydrogenase (1.4.1.10)
- 104/01011 . . L-Erythro-3,5-diaminohexanoate dehydrogenase (1.4.1.11)
- 104/01012 . . 2,4-Diaminopentanoate dehydrogenase (1.4.1.12)
- 104/01013 . . Glutamate synthase (NADPH) (1.4.1.13)
- 104/01014 . . Glutamate synthase (NADH) (1.4.1.14)
- 104/01015 . . Lysine dehydrogenase (1.4.1.15)
- 104/01016 . . Diaminopimelate dehydrogenase (1.4.1.16)
- 104/01017 . . N-Methylalanine dehydrogenase (1.4.1.17)
- 104/01018 . . Lysine 6-dehydrogenase (1.4.1.18)
- 104/01019 . . Tryptophan dehydrogenase (1.4.1.19)
- 104/0102 . . Phenylalanine dehydrogenase (1.4.1.20)
- 104/01021 . . Aspartate dehydrogenase (1.4.1.21)
- 104/01023 . . Valine dehydrogenase (NAD<sup>+</sup>) (1.4.1.23)
- 104/01024 . . 3-Dehydroquininate synthase II (1.4.1.24)
- 104/02 . . with a cytochrome as acceptor (1.4.2)
- 104/02001 . . Glycine dehydrogenase (cytochrome) (1.4.2.1)
- 104/03 . . with oxygen as acceptor (1.4.3)
- 104/03001 . . D-Aspartate oxidase (1.4.3.1)
- 104/03002 . . L-Amino-acid oxidase (1.4.3.2)
- 104/03003 . . D-Amino-acid oxidase (1.4.3.3)
- 104/03004 . . Monoamine oxidase (1.4.3.4)
- 104/03005 . . Pyridoxal 5'-phosphate synthase (1.4.3.5), i.e. pyridoxamine 5-phosphate oxidase

- 104/03006 . . Amine oxidase (copper-containing)(1.4.3.6)  
([C12Y 104/03021](#), [C12Y 104/03022](#) take precedence)
- 104/03007 . . D-Glutamate oxidase (1.4.3.7)
- 104/03008 . . Ethanalamine oxidase (1.4.3.8)
- 104/0301 . . Putrescine oxidase (1.4.3.10)
- 104/03011 . . L-Glutamate oxidase (1.4.3.11)
- 104/03012 . . Cyclohexylamine oxidase (1.4.3.12)
- 104/03013 . . Protein-lysine 6-oxidase (1.4.3.13), i.e. lysyl-oxidase
- 104/03014 . . L-Lysine oxidase (1.4.3.14)
- 104/03015 . . D-Glutamate(D-aspartate) oxidase (1.4.3.15)
- 104/03016 . . L-Aspartate oxidase (1.4.3.16)
- 104/03019 . . Glycine oxidase (1.4.3.19)
- 104/0302 . . L-Lysine 6-oxidase (1.4.3.20)
- 104/03021 . . Primary-amine oxidase (1.4.3.21), i.e. VAP-1
- 104/03022 . . Diamine oxidase (1.4.3.22)
- 104/03023 . . 7-Chloro-L-tryptophan oxidase (1.4.3.23)
- 104/03024 . . Pseudooxynicotine oxidase (1.4.3.24)
- 104/04 . . with a disulfide as acceptor (1.4.4)
- 104/04002 . . Glycine dehydrogenase (decarboxylating) (1.4.4.2)
- 104/05 . . with a quinone or similar compound as acceptor (1.4.5)
- 104/05001 . . D-Amino acid dehydrogenase (quinone) (1.4.5.1)
- 104/07 . . with an iron-sulfur protein as acceptor (1.4.7)
- 104/07001 . . Glutamate synthase (ferredoxin) (1.4.7.1)
- 104/09 . . with a copper protein as acceptor (1.4.9)
- 104/09001 . . Methylamine dehydrogenase (amicyanin) (1.4.9.1)
- 104/09002 . . Aralkylamine dehydrogenase (azurin) (1.4.9.2)
- 104/98 . . with other, known, acceptors (1.4.98)
- 104/99 . . with other acceptors (1.4.99)
- 104/99001 . . D-Amino-acid dehydrogenase (1.4.99.1)
- 104/99002 . . Taurine dehydrogenase (1.4.99.2)
- 104/99003 . . Amine dehydrogenase (1.4.99.3)
- 104/99005 . . Glycine dehydrogenase (cyanide-forming) (1.4.99.5)
- 105/00 Oxidoreductases acting on the CH-NH group of donors (1.5)**
- 105/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.5.1)
- 105/01001 . . Pyrroline-2-carboxylate reductase (1.5.1.1)
- 105/01002 . . Pyrroline-5-carboxylate reductase (1.5.1.2)
- 105/01003 . . Dihydrofolate reductase (1.5.1.3)
- 105/01005 . . Methylene tetrahydrofolate dehydrogenase (NADP<sup>+</sup>) (1.5.1.5)
- 105/01006 . . Formyltetrahydrofolate dehydrogenase (1.5.1.6)
- 105/01007 . . Saccharopine dehydrogenase (NAD<sup>+</sup>, L-lysine-forming)(1.5.1.7)
- 105/01008 . . Saccharopine dehydrogenase (NADP<sup>+</sup>, L-lysine-forming)(1.5.1.8)
- 105/01009 . . Saccharopine dehydrogenase (NAD<sup>+</sup>, L-glutamate-forming)(1.5.1.9)
- 105/0101 . . Saccharopine dehydrogenase (NADP<sup>+</sup>, L-glutamate-forming)(1.5.1.10)
- 105/01011 . . D-Octopine dehydrogenase (1.5.1.11)
- 105/01012 . . 1-Pyrroline-5-carboxylate dehydrogenase (1.5.1.12)
- 105/01015 . . Methylene tetrahydrofolate dehydrogenase (NAD<sup>+</sup>) (1.5.1.15)
- 105/01016 . . D-Lysopine dehydrogenase (1.5.1.16)
- 105/01017 . . Alanopine dehydrogenase (1.5.1.17)
- 105/01018 . . Ephedrine dehydrogenase (1.5.1.18)
- 105/01019 . . D-Nopaline dehydrogenase (1.5.1.19), i.e. D-nopaline synthase
- 105/0102 . . Methylene tetrahydrofolate reductase [NAD(P)H] (1.5.1.20)
- 105/01021 . . DELTA1-piperidine-2-carboxylate reductase (1.5.1.21)
- 105/01022 . . Strombine dehydrogenase (1.5.1.22)
- 105/01023 . . Tauropine dehydrogenase (1.5.1.23)
- 105/01024 . . N5-(Carboxyethyl)ornithine synthase (1.5.1.24)
- 105/01025 . . Thiomorpholine-carboxylate dehydrogenase (1.5.1.25)
- 105/01026 . . Beta-alanopine dehydrogenase (1.5.1.26)
- 105/01027 . . 1,2-Dehydroreticulium reductase (NADPH) (1.5.1.27)
- 105/01028 . . Opine dehydrogenase (1.5.1.28)
- 105/01029 . . FMN reductase (1.5.1.29)
- 105/0103 . . Flavin reductase (1.5.1.30)
- 105/01031 . . Berberine reductase (1.5.1.31)
- 105/01032 . . Vomilenine reductase (1.5.1.32)
- 105/01033 . . Pteridine reductase (1.5.1.33)
- 105/01034 . . 6,7-Dihydropteridine reductase (1.5.1.34)
- 105/01036 . . Flavin reductase (NADH) (1.5.1.36)
- 105/01037 . . FAD reductase (NADH) (1.5.1.37)
- 105/01038 . . FMN reductase (NADPH) (1.5.1.38)
- 105/01039 . . FMN reductase (NAD(P)H)(1.5.1.39)
- 105/0104 . . 8-Hydroxy-5-deazaflavin:NADPH oxidoreductase (1.5.1.40)
- 105/01041 . . Riboflavin reductase (NAD(P)H)(1.5.1.41)
- 105/01042 . . FMN reductase (NADH) (1.5.1.42)
- 105/01043 . . Carboxynorspermidine synthase (1.5.1.43)
- 105/01044 . . Festuclavine dehydrogenase (1.5.1.44)
- 105/01045 . . FAD reductase [NAD(P)H] (1.5.1.45)
- 105/03 . . with oxygen as acceptor (1.5.3)
- 105/03001 . . Sarcosine oxidase (1.5.3.1)
- 105/03002 . . N-Methyl-L-amino-acid oxidase (1.5.3.2)
- 105/03004 . . N6-Methyl-lysine oxidase (1.5.3.4)
- 105/03005 . . (S)-6-Hydroxynicotine oxidase (1.5.3.5)
- 105/03006 . . (R)-6-Hydroxynicotine oxidase (1.5.3.6)
- 105/03007 . . L-Pipecolate oxidase (1.5.3.7)
- 105/0301 . . Dimethylglycine oxidase (1.5.3.10)
- 105/03011 . . Polyamine oxidase (1.5.3.11)  
([C12Y 105/03013](#) - [C12Y 105/03017](#) take precedence)
- 105/03012 . . Dihydrobenzophenanthridine oxidase (1.5.3.12)
- 105/03013 . . N1-Acetylpolyamine oxidase (1.5.3.13)
- 105/03014 . . Polyamine oxidase (propane-1,3-diamine-forming) (1.5.3.14)
- 105/03015 . . N8-Acetylspermidine oxidase (propane-1,3-diamine-forming) (1.5.3.15)
- 105/03016 . . Spermine oxidase (1.5.3.16)
- 105/03017 . . Non-specific polyamine oxidase (1.5.3.17)
- 105/03018 . . L-Saccharopine oxidase (1.5.3.18)
- 105/03019 . . 4-Methylaminobutanoate oxidase (formaldehyde-forming) (1.5.3.19)
- 105/0302 . . N-Alkylglycine oxidase (1.5.3.20)
- 105/03021 . . 4-Methylaminobutanoate oxidase (methylamine-forming) (1.5.3.21)
- 105/04 . . with a disulfide as acceptor (1.5.4)
- 105/04001 . . Pyrimidodiazepine synthase (1.5.4.1)
- 105/05 . . with a quinone or similar compound as acceptor (1.5.5)

- 105/05001 . . Electron-transferring-flavoprotein dehydrogenase (1.5.5.1)
- 105/07 . . with an iron-sulfur protein as acceptor (1.5.7)
- 105/07001 . . Methylenetetrahydrofolate reductase (ferredoxin) (1.5.7.1)
- 105/08 . . with a flavin as acceptor (1.5.8)
- 105/08001 . . Dimethylamine dehydrogenase (1.5.8.1)
- 105/08002 . . Trimethylamine dehydrogenase (1.5.8.2)
- 105/08003 . . Sarcosine dehydrogenase (1.5.8.3)
- 105/08004 . . Dimethylglycine dehydrogenase (1.5.8.4)
- 105/99 . . with other acceptors (1.5.99)
- 105/99003 . . L-Pipecolate dehydrogenase (1.5.99.3)
- 105/99004 . . Nicotine dehydrogenase (1.5.99.4)
- 105/99005 . . Methylglutamate dehydrogenase (1.5.99.5)
- 105/99006 . . Spermidine dehydrogenase (1.5.99.6)
- 105/99008 . . Proline dehydrogenase (1.5.99.8)
- 105/99009 . . Methylenetetrahydromethanopterin dehydrogenase (1.5.99.9)
- 105/99011 . . 5,10-Methylenetetrahydromethanopterin reductase (1.5.99.11)
- 105/99012 . . Cytokinin dehydrogenase (1.5.99.12)
- 105/99013 . . D-Proline dehydrogenase (1.5.99.13)
- 105/99014 . . 6-Hydroxypseudooxynicotine dehydrogenase (1.5.99.14)
- 106/00 Oxidoreductases acting on NADH or NADPH (1.6)**
- 106/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.6.1)
- 106/01001 . . NAD(P)<sup>+</sup> transhydrogenase (B-specific) (1.6.1.1)
- 106/01002 . . NAD(P)<sup>+</sup> Transhydrogenase (AB-specific) (1.6.1.2)
- 106/02 . . with a heme protein as acceptor (1.6.2)
- 106/02002 . . Cytochrome-b5 reductase (1.6.2.2)
- 106/02004 . . NADPH-hemoprotein reductase (1.6.2.4), i.e. NADP-cytochrome P450-reductase
- 106/02005 . . NADPH--cytochrome-c2 reductase (1.6.2.5)
- 106/02006 . . Leghemoglobin reductase (1.6.2.6)
- 106/03 . . with oxygen as acceptor (1.6.3)
- 106/03001 . . NAD(P)H oxidase (1.6.3.1), i.e. NOX1
- 106/05 . . with a quinone or similar compound as acceptor (1.6.5)
- 106/05002 . . NAD(P)H dehydrogenase (quinone) (1.6.5.2)
- 106/05003 . . NADH dehydrogenase (ubiquinone) (1.6.5.3)
- 106/05004 . . Monodehydroascorbate reductase (NADH) (1.6.5.4)
- 106/05005 . . NADPH:quinone reductase (1.6.5.5)
- 106/05006 . . p-Benzoquinone reductase (NADPH) (1.6.5.6)
- 106/05007 . . 2-Hydroxy-1,4-benzoquinone reductase (1.6.5.7)
- 106/05008 . . NADH:ubiquinone reductase (Na<sup>+</sup>-transporting) (1.6.5.8)
- 106/05009 . . NADH:ubiquinone reductase (non-electrogenic) (1.6.5.9)
- 106/0501 . . NADPH dehydrogenase (quinone) (1.6.5.10)
- 106/06 . . with a nitrogenous group as acceptor (1.6.6)
- 106/06009 . . Trimethylamine-N-oxide reductase (1.6.6.9)
- 106/99 . . with other acceptors (1.6.99)
- 106/99001 . . NADPH dehydrogenase (1.6.99.1)
- 106/99003 . . NADH dehydrogenase (1.6.99.3)
- 106/99005 . . NADH dehydrogenase (quinone) (1.6.99.5)
- 107/00 Oxidoreductases acting on other nitrogenous compounds as donors (1.7)**
- 107/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.7.1)
- 107/01001 . . Nitrate reductase (NADH) (1.7.1.1)
- 107/01002 . . Nitrate reductase [NAD(P)H] (1.7.1.2)
- 107/01003 . . Nitrate reductase (NADPH) (1.7.1.3)
- 107/01004 . . Nitrite reductase [NAD(P)H] (1.7.1.4)
- 107/01005 . . Hyponitrite reductase (1.7.1.5)
- 107/01006 . . Azobenzene reductase (1.7.1.6)
- 107/01007 . . GMP reductase (1.7.1.7)
- 107/01009 . . Nitroquinoline-N-oxide reductase (1.7.1.9)
- 107/0101 . . Hydroxylamine reductase (NADH) (1.7.1.10)
- 107/01011 . . 4-(Dimethylamino)phenylazoxybenzene reductase (1.7.1.11)
- 107/01012 . . N-Hydroxy-2-acetamidofluorene reductase (1.7.1.12)
- 107/01013 . . PreQ1 synthase (1.7.1.13)
- 107/01014 . . Nitric oxide reductase (NAD(P), nitrous oxide-forming)(1.7.1.14)
- 107/02 . . with a cytochrome as acceptor (1.7.2)
- 107/02001 . . Nitrite reductase (NO-forming) (1.7.2.1)
- 107/02002 . . Nitrite reductase (cytochrome; ammonia-forming) (1.7.2.2)
- 107/02003 . . Trimethylamine-N-oxide reductase (cytochrome c)(1.7.2.3)
- 107/02004 . . Nitrous-oxide reductase (1.7.2.4)
- 107/02005 . . Nitric-oxide reductase (cytochrome c)(1.7.2.5)
- 107/02006 . . Hydroxylamine dehydrogenase (1.7.2.6)
- 107/03 . . with oxygen as acceptor (1.7.3)
- 107/03001 . . Nitroalkane oxidase (1.7.3.1)
- 107/03002 . . Acetyloxidoxyl oxidase (1.7.3.2)
- 107/03003 . . Factor-independent urate hydroxylase (1.7.3.3), i.e. uricase
- 107/03004 . . Hydroxylamine oxidase (1.7.3.4)
- 107/03005 . . 3-Aci-nitropropanoate oxidase (1.7.3.5)
- 107/05 . . with a quinone or similar compound as acceptor (1.7.5)
- 107/05001 . . Nitrate reductase (quinone) (1.7.5.1)
- 107/05002 . . Nitric oxide reductase (menaquinol) (1.7.5.2)
- 107/06 . . with a nitrogenous group as acceptor (1.7.6)
- 107/06001 . . Nitrite dismutase (1.7.6.1)
- 107/07 . . with an iron-sulfur protein as acceptor (1.7.7)
- 107/07001 . . Ferredoxin--nitrite reductase (1.7.7.1)
- 107/07002 . . Ferredoxin--nitrate reductase (1.7.7.2)
- 107/99 . . with other acceptors (1.7.99)
- 107/99001 . . Hydroxylamine reductase (1.7.99.1)
- 107/99004 . . Nitrate reductase (1.7.99.4)
- 107/99008 . . Hydrazine oxidoreductase (1.7.99.8)
- 108/00 Oxidoreductases acting on sulfur groups as donors (1.8)**
- 108/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.8.1)
- 108/01002 . . Sulfite reductase (NADPH) (1.8.1.2)
- 108/01003 . . Hypotaurine dehydrogenase (1.8.1.3)
- 108/01004 . . Dihydrolipoyl dehydrogenase (1.8.1.4), i.e. lipoamide-dehydrogenase
- 108/01005 . . 2-Oxopropyl-CoM reductase (carboxylating) (1.8.1.5)
- 108/01006 . . Cystine reductase (1.8.1.6)
- 108/01007 . . Glutathione-disulfide reductase (1.8.1.7), i.e. glutathione reductase (NADPH)
- 108/01008 . . Protein-disulfide reductase (1.8.1.8), i.e. thioredoxin
- 108/01009 . . Thioredoxin-disulfide reductase (1.8.1.9), i.e. thioredoxin-reductase
- 108/0101 . . CoA-glutathione reductase (NADPH) (1.8.1.10)
- 108/01011 . . Asparaguate reductase (1.8.1.11)

- 108/01012 . . Trypanothione reductase (1.8.1.12)
- 108/01013 . . Bis-gamma-glutamylcystine reductase (1.8.1.13)
- 108/01014 . . CoA-disulfide reductase (1.8.1.14)
- 108/01015 . . Mycothione reductase (1.8.1.15)
- 108/01016 . . Glutathione amide reductase (1.8.1.16)
- 108/01017 . . Dimethylsulfone reductase (1.8.1.17)
- 108/02 . . with a cytochrome as acceptor (1.8.2)
- 108/02001 . . Sulfite dehydrogenase (1.8.2.1)
- 108/02002 . . Thiosulfate dehydrogenase (1.8.2.2)
- 108/02003 . . Sulfide-cytochrome-c reductase (flavocytochrome c)(1.8.2.3)
- 108/02004 . . Dimethyl sulfide:cytochrome c2 reductase (1.8.2.4)
- 108/03 . . with oxygen as acceptor (1.8.3)
- 108/03001 . . Sulfite oxidase (1.8.3.1)
- 108/03002 . . Thiol oxidase (1.8.3.2)
- 108/03003 . . Glutathione oxidase (1.8.3.3)
- 108/03004 . . Methanethiol oxidase (1.8.3.4)
- 108/03005 . . Prenylcysteine oxidase (1.8.3.5)
- 108/03006 . . Farnesylcysteine lyase (1.8.3.6)
- 108/04 . . with a disulfide as acceptor (1.8.4)
- 108/04001 . . Glutathione--homocystine transhydrogenase (1.8.4.1)
- 108/04002 . . Protein-disulfide reductase (glutathione) (1.8.4.2), i.e. BdbC or BdbD
- 108/04003 . . Glutathione--CoA-glutathione transhydrogenase (1.8.4.3)
- 108/04004 . . Glutathione--cystine transhydrogenase (1.8.4.4)
- 108/04005 . . Methionine-S-oxide reductase (1.8.4.5)  
([C12Y 108/04013](#), [C12Y 108/04014](#) take precedence)
- 108/04007 . . Enzyme-thiol transhydrogenase (glutathione-disulfide) (1.8.4.7)
- 108/04008 . . Phosphoadenylyl-sulfate reductase (thioredoxin) (1.8.4.8)
- 108/04009 . . Adenylyl-sulfate reductase (glutathione) (1.8.4.9)
- 108/0401 . . Adenylyl-sulfate reductase (thioredoxin) (1.8.4.10)
- 108/04011 . . Peptide-methionine (S)-S-oxide reductase (1.8.4.11)
- 108/04012 . . Peptide-methionine (R)-S-oxide reductase (1.8.4.12)
- 108/04013 . . L-Methionine (S)-S-oxide reductase (1.8.4.13)
- 108/04014 . . L-Methionine (R)-S-oxide reductase (1.8.4.14)
- 108/05 . . with a quinone or similar compound as acceptor (1.8.5)
- 108/05001 . . Glutathione dehydrogenase (ascorbate) (1.8.5.1)
- 108/05002 . . Thiosulfate dehydrogenase (quinone) (1.8.5.2)
- 108/05003 . . Dimethylsulfoxide reductase (1.8.5.3)
- 108/05004 . . Sulfide:quinone reductase (1.8.5.4)
- 108/07 . . with an iron-sulfur protein as acceptor (1.8.7)
- 108/07001 . . Sulfite reductase (ferredoxin) (1.8.7.1)
- 108/07002 . . Ferredoxin:thioredoxin reductase (1.8.7.2)
- 108/98 . . with other, known, acceptors (1.8.98)
- 108/98001 . . CoB--CoM heterodisulfide reductase (1.8.98.1)
- 108/98002 . . Sulfiredoxin (1.8.98.2)
- 108/99 . . with other acceptors (1.8.99)
- 108/99001 . . Sulfite reductase (1.8.99.1)
- 108/99002 . . Adenylyl-sulfate reductase (1.8.99.2)
- 108/99003 . . Hydrogensulfite reductase (1.8.99.3)
- 109/00 Oxidoreductases acting on a heme group of donors (1.9)**
- 109/03 . . with oxygen as acceptor (1.9.3)
- 109/03001 . . Cytochrome-c oxidase (1.9.3.1)
- 109/06 . . with a nitrogenous group as acceptor (1.9.6)
- 109/06001 . . Nitrate reductase (cytochrome) (1.9.6.1)
- 109/99 . . with other acceptors (1.9.99)
- 109/99001 . . Iron--cytochrome-c reductase (1.9.99.1)
- 110/00 Oxidoreductases acting on diphenols and related substances as donors (1.10)**
- 110/01 . . with NAD+ or NADP+ as acceptor (1.10.1)
- 110/01001 . . Trans-acenaphthene-1,2-diol dehydrogenase (1.10.1.1)
- 110/02 . . with a cytochrome as acceptor (1.10.2)
- 110/02001 . . L-Ascorbate--cytochrome-b5 reductase (1.10.2.1)
- 110/02002 . . Ubiquinol-cytochrome-c reductase (1.10.2.2), i.e. electron-transport-complex-III
- 110/03 . . with an oxygen as acceptor (1.10.3)
- 110/03001 . . Catechol oxidase (1.10.3.1), i.e. tyrosinase
- 110/03002 . . Laccase (1.10.3.2)
- 110/03003 . . L-ascorbate oxidase (1.10.3.3)
- 110/03004 . . O-aminophenol oxidase (1.10.3.4)
- 110/03005 . . 3-Hydroxyanthranilate oxidase (1.10.3.5)
- 110/03006 . . Rifamycin-B oxidase (1.10.3.6)
- 110/03009 . . Photosystem II (1.10.3.9)
- 110/0301 . . Ubiquinol oxidase (H+-transporting) (1.10.3.10)
- 110/03011 . . Ubiquinol oxidase (1.10.3.11)
- 110/03012 . . Menaquinol oxidase (H+-transporting) (1.10.3.12)
- 110/09 . . with a copper protein as acceptor (1.10.9)
- 110/09001 . . Plastocyanin-plastocyanin reductase (1.10.9.1)
- 110/99 . . with other acceptors (1.10.99)
- 110/99002 . . Ribosyl-dihydroxynicotinamide dehydrogenase (quinone) (1.10.99.2)
- 110/99003 . . Violaxanthin de-epoxidase (1.10.99.3)
- 111/00 Oxidoreductases acting on a peroxide as acceptor (1.11)**
- 111/01 . . Peroxidases (1.11.1)
- 111/01001 . . NADH peroxidase (1.11.1.1)
- 111/01002 . . NADPH peroxidase (1.11.1.2)
- 111/01003 . . Fatty-acid peroxidase (1.11.1.3)
- 111/01005 . . Cytochrome-c peroxidase (1.11.1.5)
- 111/01006 . . Catalase (1.11.1.6)
- 111/01007 . . Peroxidase (1.11.1.7), i.e. horseradish-peroxidase
- 111/01008 . . Iodide peroxidase (1.11.1.8)
- 111/01009 . . Glutathione peroxidase (1.11.1.9)
- 111/0101 . . Chloride peroxidase (1.11.1.10)
- 111/01011 . . L-ascorbate peroxidase (1.11.1.11)
- 111/01012 . . Phospholipid-hydroperoxide glutathione peroxidase (1.11.1.12)
- 111/01013 . . Manganese peroxidase (1.11.1.13)
- 111/01014 . . Lignin peroxidase (1.11.1.14)
- 111/01015 . . Peroxiredoxin (1.11.1.15)
- 111/01016 . . Versatile peroxidase (1.11.1.16)
- 111/01017 . . Glutathione amide-dependent peroxidase (1.11.1.17)
- 111/01018 . . Bromide peroxidase (1.11.1.18)
- 111/01019 . . Dye decolorizing peroxidase (1.11.1.19)
- 111/0102 . . Prostamide/prostaglandin F2-alpha synthase (1.11.1.20)
- 111/01021 . . Catalase-peroxidase (1.11.1.21)
- 111/01802 . . Chloride peroxidase (vanadium-containing) (1.11.1.B2)

- 111/01806 . . Iodide peroxidase (vanadium-containing) (1.11.1.B6)
- 111/01807 . . Bromide peroxidase (heme-containing) (1.11.1.B7)
- 111/01808 . . Bromide peroxidase (metal-containing) (1.11.1.B8)
- 111/02 . . with H<sub>2</sub>O<sub>2</sub> as acceptor, one oxygen atom of which is incorporated into the product (1.11.2)
- 111/02001 . . Unspecific peroxygenase (1.11.2.1)
- 111/02002 . . Myeloperoxidase (1.11.2.2)
- 111/02003 . . Plant seed peroxygenase (1.11.2.3)
- 111/02004 . . Fatty-acid peroxygenase (1.11.2.4)
- 112/00 Oxidoreductases acting on hydrogen as donor (1.12)**
- 112/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.12.1)
- 112/01002 . . Hydrogen dehydrogenase (1.12.1.2)
- 112/01003 . . Hydrogen dehydrogenase (NADP<sup>+</sup>) (1.12.1.3)
- 112/01004 . . Hydrogenase (NAD<sup>+</sup>, ferredoxin)(1.12.1.4)
- 112/02 . . with a cytochrome as acceptor (1.12.2)
- 112/02001 . . Cytochrome-c3 hydrogenase (1.12.2.1)
- 112/05 . . with a quinone or similar compound as acceptor (1.12.5)
- 112/05001 . . Hydrogen:quinone oxidoreductase (1.12.5.1)
- 112/07 . . with an iron-sulfur protein as acceptor (1.12.7)
- 112/07002 . . Ferredoxin hydrogenase (1.12.7.2)
- 112/98 . . with other, known, acceptors (1.12.98)
- 112/98001 . . Coenzyme F420 hydrogenase (1.12.98.1)
- 112/98002 . . 5,10-Methenyltetrahydromethanopterin hydrogenase (1.12.98.2)
- 112/98003 . . Methanosarcina-phenazine hydrogenase (1.12.98.3)
- 112/99 . . with other acceptors (1.12.99)
- 112/99006 . . Hydrogenase (acceptor) (1.12.99.6)
- 113/00 Oxidoreductases acting on single donors with incorporation of molecular oxygen (oxygenases) (1.13)**
- 113/11 . . with incorporation of two atoms of oxygen (1.13.11)
- 113/11001 . . Catechol 1,2-dioxygenase (1.13.11.1)
- 113/11002 . . Catechol 2,3-dioxygenase (1.13.11.2)
- 113/11003 . . Protocatechuate 3,4-dioxygenase (1.13.11.3)
- 113/11004 . . Gentisate 1,2-dioxygenase (1.13.11.4)
- 113/11005 . . Homogentisate 1,2-dioxygenase (1.13.11.5)
- 113/11006 . . 3-Hydroxyanthranilate 3,4-dioxygenase (1.13.11.6)
- 113/11008 . . Protocatechuate 4,5-dioxygenase (1.13.11.8)
- 113/11009 . . 2,5-Dihydroxypyridine 5,6-dioxygenase (1.13.11.9)
- 113/1101 . . 7,8-Dihydroxykynurenate 8,8a-dioxygenase (1.13.11.10)
- 113/11011 . . Tryptophan 2,3-dioxygenase (1.13.11.11), i.e. indolamine 2,3-dioxygenase 2
- 113/11012 . . Linoleate 13S-lipoxygenase (1.13.11.12)
- 113/11014 . . 2,3-Dihydroxybenzoate 3,4-dioxygenase (1.13.11.14)
- 113/11015 . . 3,4-Dihydroxyphenylacetate 2,3-dioxygenase (1.13.11.15)
- 113/11016 . . 3-Carboxyethylcatechol 2,3-dioxygenase (1.13.11.16)
- 113/11017 . . Indole 2,3-dioxygenase (1.13.11.17)
- 113/11018 . . Sulfur dioxygenase (1.13.11.18)
- 113/11019 . . Cysteamine dioxygenase (1.13.11.19)
- 113/1102 . . Cysteine dioxygenase (1.13.11.20)
- 113/11022 . . Caffeate 3,4-dioxygenase (1.13.11.22)
- 113/11023 . . 2,3-Dihydroxyindole 2,3-dioxygenase (1.13.11.23)
- 113/11024 . . Quercetin 2,3-dioxygenase (1.13.11.24)
- 113/11025 . . 3,4-Dihydroxy-9,10-secoandrosta-1,3,5(10)-triene-9,17-dione 4,5-dioxygenase (1.13.11.25)
- 113/11026 . . Peptide-tryptophan 2,3-dioxygenase (1.13.11.26)
- 113/11027 . . 4-Hydroxyphenylpyruvate dioxygenase (1.13.11.27)
- 113/11028 . . 2,3-Dihydroxybenzoate 2,3-dioxygenase (1.13.11.28)
- 113/11029 . . Stizolobate synthase (1.13.11.29)
- 113/1103 . . Stizolobinate synthase (1.13.11.30)
- 113/11031 . . Arachidonate 12-lipoxygenase (1.13.11.31), i.e. lipoxygenase-type-12
- 113/11033 . . Arachidonate 15-lipoxygenase (1.13.11.33)
- 113/11034 . . Arachidonate 5-lipoxygenase (1.13.11.34)
- 113/11035 . . Pyrogallol 1,2-oxygenase (1.13.11.35)
- 113/11036 . . Chloridazon-catechol dioxygenase (1.13.11.36)
- 113/11037 . . Hydroxyquinol 1,2-dioxygenase (1.13.11.37)
- 113/11038 . . 1-Hydroxy-2-naphthoate 1,2-dioxygenase (1.13.11.38)
- 113/11039 . . Biphenyl-2,3-diol 1,2-dioxygenase (1.13.11.39)
- 113/1104 . . Arachidonate 8-lipoxygenase (1.13.11.40)
- 113/11041 . . 2,4'-Dihydroxyacetophenone dioxygenase (1.13.11.41)
- 113/11043 . . Lignostilbene alpha-beta-dioxygenase (1.13.11.43)
- 113/11044 . . Linoleate diol synthase (1.13.11.44)  
([C12Y 113/1106](#), [C12Y 504/04006](#) take precedence)
- 113/11045 . . Linoleate 11-lipoxygenase (1.13.11.45)
- 113/11046 . . 4-Hydroxymandelate synthase (1.13.11.46)
- 113/11047 . . 3-Hydroxy-4-oxoquinoline 2,4-dioxygenase (1.13.11.47)
- 113/11048 . . 3-Hydroxy-2-methylquinolin-4-one 2,4-dioxygenase (1.13.11.48)
- 113/11049 . . Chlorite O<sub>2</sub>-lyase (1.13.11.49)
- 113/1105 . . Acetylacetone-cleaving enzyme (1.13.11.50)
- 113/11051 . . 9-Cis-epoxycarotenoid dioxygenase (1.13.11.51)
- 113/11052 . . Indoleamine 2,3-dioxygenase (1.13.11.52), i.e. indoleamine 2,3-dioxygenase 1
- 113/11053 . . Acireductone dioxygenase (Ni<sup>2+</sup>-requiring) (1.13.11.53)
- 113/11054 . . Acireductone dioxygenase (Fe(2+)-requiring) (1.13.11.54)
- 113/11055 . . Sulfur oxygenase/reductase (1.13.11.55)
- 113/11056 . . 1,2-Dihydroxynaphthalene dioxygenase (1.13.11.56)
- 113/11057 . . Gallate dioxygenase (1.13.11.57)
- 113/11058 . . Linoleate 9S-lipoxygenase (1.13.11.58)
- 113/11059 . . Torulene dioxygenase (1.13.11.59)
- 113/1106 . . Linoleate 8R-lipoxygenase (1.13.11.60)
- 113/11061 . . Linoleate 9R-lipoxygenase (1.13.11.61)
- 113/11062 . . Linoleate 10R-lipoxygenase (1.13.11.62)
- 113/11063 . . Beta-carotene 15,15'-dioxygenase (1.13.11.63)
- 113/11064 . . 5-Nitrosalicylate dioxygenase (1.13.11.64)
- 113/11065 . . Carotenoid isomeroxygenase (1.13.11.65)
- 113/11066 . . Hydroquinone 1,2-dioxygenase (1.13.11.66)
- 113/11067 . . 8'-Apo-beta-carotenoid 14',13'-cleaving dioxygenase (1.13.11.67)
- 113/11068 . . 9-Cis-beta-carotene 9',10'-cleaving dioxygenase (1.13.11.68)

- 113/11069 . . Carlactone synthase (1.13.11.69)
- 113/1107 . . All-trans-10'-apo-beta-carotenal 13,14-cleaving dioxygenase (1.13.11.70)
- 113/11071 . . Carotenoid-9',10'-cleaving dioxygenase (1.13.11.71)
- 113/11072 . . 2-Hydroxyethylphosphonate dioxygenase (1.13.11.72)
- 113/11073 . . Methylphosphonate synthase (1.13.11.73)
- 113/12 . . with incorporation of one atom of oxygen (internal monooxygenases or internal mixed function oxidases)(1.13.12)
- 113/12001 . . Arginine 2-monooxygenase (1.13.12.1)
- 113/12002 . . Lysine 2-monooxygenase (1.13.12.2)
- 113/12003 . . Tryptophan 2-monooxygenase (1.13.12.3)
- 113/12004 . . Lactate 2-monooxygenase (1.13.12.4)
- 113/12005 . . Renilla-luciferin 2-monooxygenase (1.13.12.5), i.e. renilla-luciferase
- 113/12006 . . Cypridina-luciferin 2-monooxygenase (1.13.12.6), i.e. cypridina-luciferase
- 113/12007 . . Photinus-luciferin 4-monooxygenase (ATP-hydrolysing) (1.13.12.7), i.e. firefly-luciferase
- 113/12008 . . Watasenia-luciferin 2-monooxygenase (1.13.12.8)
- 113/12009 . . Phenylalanine 2-monooxygenase (1.13.12.9)
- 113/12013 . . Oplophorus-luciferin 2-monooxygenase (1.13.12.13)
- 113/12015 . . 3,4-Dihydroxyphenylalanine oxidative deaminase (1.13.12.15)
- 113/12016 . . Nitronate monooxygenase (1.13.12.16)
- 113/12017 . . Dichloroarcyriaflavin A synthase (1.13.12.17)
- 113/12018 . . Dinoflagellate luciferase (1.13.12.18)
- 113/12019 . . 2-Oxoglutarate dioxygenase (ethylene-forming) (1.13.12.19)
- 113/99 . . Miscellaneous (1.13.99)
- 113/99001 . . Inositol oxygenase (1.13.99.1), i.e. myo-inositol oxygenase
- 113/99003 . . Tryptophan 2'-dioxygenase (1.13.99.3), i.e. indole-3-alkane-alpha-hydroxylase
- 114/00 Oxidoreductases acting on paired donors, with incorporation or reduction of molecular oxygen (1.14)**
- 114/11 . . with 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors (1.14.11)
- 114/11001 . . Gamma-butyrobetaine dioxygenase (1.14.11.1)
- 114/11002 . . Procollagen-proline dioxygenase (1.14.11.2), i.e. proline-hydroxylase
- 114/11003 . . Pyrimidine-deoxynucleoside 2'-dioxygenase (1.14.11.3)
- 114/11004 . . Procollagen-lysine 5-dioxygenase (1.14.11.4), i.e. lysine-hydroxylase
- 114/11006 . . Thymine dioxygenase (1.14.11.6)
- 114/11007 . . Procollagen-proline 3-dioxygenase (1.14.11.7)
- 114/11008 . . Trimethyllysine dioxygenase (1.14.11.8)
- 114/11009 . . Flavanone 3-dioxygenase (1.14.11.9), i.e. naringenin-3-dioxygenase
- 114/1101 . . Pyrimidine-deoxynucleoside 1'-dioxygenase (1.14.11.10)
- 114/11011 . . Hyoscyamine (6S)-dioxygenase (1.14.11.11)
- 114/11012 . . Gibberellin-44 dioxygenase (1.14.11.12)
- 114/11013 . . Gibberellin 2-beta-dioxygenase (1.14.11.13)
- 114/11014 . . 6-Beta-hydroxyhyoscyamine epoxidase (1.14.11.14)
- 114/11015 . . Gibberellin 3-beta-dioxygenase (1.14.11.15)
- 114/11016 . . Peptide-aspartate beta-dioxygenase (1.14.11.16), i.e. aspartyl (asparaginy) beta-hydroxylase
- 114/11017 . . Taurine dioxygenase (1.14.11.17)
- 114/11018 . . Phytanoyl-CoA dioxygenase (1.14.11.18)
- 114/11019 . . Leucocyanidin oxygenase (1.14.11.19)
- 114/1102 . . Deacetoxyvindoline 4-hydroxylase (1.14.11.20)
- 114/11021 . . Clavamate synthase (1.14.11.21)
- 114/11022 . . Flavone synthase (1.14.11.22)
- 114/11023 . . Flavonol synthase (1.14.11.23)
- 114/11024 . . 2'-Deoxymugineic-acid 2'-dioxygenase (1.14.11.24)
- 114/11025 . . Mugineic-acid 3-dioxygenase (1.14.11.25)
- 114/11026 . . Deacetoxycephalosporin-C hydroxylase (1.14.11.26)
- 114/11027 . . [Histone H3]-lysine-36 demethylase (1.14.11.27)
- 114/11028 . . Proline 3-hydroxylase (1.14.11.28)
- 114/11029 . . Hypoxia-inducible factor-proline dioxygenase (1.14.11.29)
- 114/1103 . . Hypoxia-inducible factor-asparagine dioxygenase (1.14.11.30)
- 114/11031 . . Thebaine 6-O-demethylase (1.14.11.31)
- 114/11032 . . Codeine 3-O-demethylase (1.14.11.32)
- 114/11033 . . DNA oxidative demethylase (1.14.11.33)
- 114/11034 . . 2-Oxoglutarate/L-arginine monooxygenase/ decarboxylase (succinate-forming) (1.14.11.34)
- 114/11035 . . 1-Deoxypentalenic acid 11beta-hydroxylase (1.14.11.35)
- 114/11036 . . Pentalenolactone F synthase (1.14.11.36)
- 114/12 . . with NADH or NADPH as one donor, and incorporation of two atoms of oxygen into one donor (1.14.12)
- 114/12001 . . Anthranilate 1,2-dioxygenase (deaminating, decarboxylating)(1.14.12.1)
- 114/12003 . . Benzene 1,2-dioxygenase (1.14.12.3)
- 114/12004 . . 3-Hydroxy-2-methylpyridinecarboxylate dioxygenase (1.14.12.4)
- 114/12005 . . 5-Pyridoxate dioxygenase (1.14.12.5)
- 114/12007 . . Phthalate 4,5-dioxygenase (1.14.12.7)
- 114/12008 . . 4-Sulfobenzoate 3,4-dioxygenase (1.14.12.8)
- 114/12009 . . 4-Chlorophenylacetate 3,4-dioxygenase (1.14.12.9)
- 114/1201 . . Benzoate 1,2-dioxygenase (1.14.12.10)
- 114/12011 . . Toluene dioxygenase (1.14.12.11)
- 114/12012 . . Naphthalene 1,2-dioxygenase (1.14.12.12)
- 114/12013 . . 2-Halobenzoate 1,2-dioxygenase (1.14.12.13)
- 114/12014 . . 2-Aminobenzenesulfonate 2,3-dioxygenase (1.14.12.14)
- 114/12015 . . Terephthalate 1,2-dioxygenase (1.14.12.15)
- 114/12016 . . 2-Hydroxyquinoline 5,6-dioxygenase (1.14.12.16)
- 114/12017 . . Nitric oxide dioxygenase (1.14.12.17)
- 114/12018 . . Biphenyl 2,3-dioxygenase (1.14.12.18)
- 114/12019 . . 3-Phenylpropanoate dioxygenase (1.14.12.19)
- 114/1202 . . Pheophorbide a oxygenase (1.14.12.20)
- 114/12021 . . Benzoyl-CoA 2,3-dioxygenase (1.14.12.21)
- 114/12022 . . Carbazole 1,9a-dioxygenase (1.14.12.22)
- 114/13 . . with NADH or NADPH as one donor, and incorporation of one atom of oxygen (1.14.13)
- 114/13001 . . Salicylate 1-monooxygenase (1.14.13.1)
- 114/13002 . . 4-Hydroxybenzoate 3-monooxygenase (1.14.13.2)
- 114/13004 . . Melilotate 3-monooxygenase (1.14.13.4)
- 114/13005 . . Imidazoleacetate 4-monooxygenase (1.14.13.5)

- 114/13006 . . Orcinol 2-monooxygenase (1.14.13.6)  
 114/13007 . . Phenol 2-monooxygenase (1.14.13.7)  
 114/13008 . . Flavin-containing monooxygenase (1.14.13.8),  
 i.e. dimethylaniline-monooxygenase  
 114/13009 . . Kynurenine 3-monooxygenase (1.14.13.9)  
 114/1301 . . 2,6-Dihydroxypyridine 3-monooxygenase  
 (1.14.13.10)  
 114/13011 . . Trans-cinnamate 4-monooxygenase (1.14.13.11)  
 114/13012 . . Benzoate 4-monooxygenase (1.14.13.12)  
 114/13013 . . Calcidiol 1-monooxygenase (1.14.13.13), i.e. 25-  
 hydroxyvitamin D-1-alpha-hydroxylase  
 114/13014 . . Trans-cinnamate 2-monooxygenase (1.14.13.14)  
 114/13015 . . Cholestanetriol 26-monooxygenase (1.14.13.15)  
 114/13016 . . Cyclopentanone monooxygenase (1.14.13.16)  
 114/13017 . . Cholesterol 7-alpha-monooxygenase (1.14.13.17)  
 114/13018 . . 4-Hydroxyphenylacetate 1-monooxygenase  
 (1.14.13.18)  
 114/13019 . . Taxifolin 8-monooxygenase (1.14.13.19)  
 114/1302 . . 2,4-Dichlorophenol 6-monooxygenase  
 (1.14.13.20)  
 114/13021 . . Flavonoid 3'-monooxygenase (1.14.13.21)  
 114/13022 . . Cyclohexanone monooxygenase (1.14.13.22)  
 114/13023 . . 3-Hydroxybenzoate 4-monooxygenase  
 (1.14.13.23)  
 114/13024 . . 3-Hydroxybenzoate 6-monooxygenase  
 (1.14.13.24)  
 114/13025 . . Methane monooxygenase (1.14.13.25)  
 114/13026 . . Phosphatidylcholine 12-monooxygenase  
 (1.14.13.26)  
 114/13027 . . 4-Aminobenzoate 1-monooxygenase (1.14.13.27)  
 114/13028 . . 3,9-Dihydroxypterocarpan 6A-monooxygenase  
 (1.14.13.28)  
 114/13029 . . 4-Nitrophenol 2-monooxygenase (1.14.13.29)  
 114/1303 . . Leukotriene-B4 20-monooxygenase (1.14.13.30),  
 i.e. leukotriene-B4-omega-hydroxylase  
 114/13031 . . 2-Nitrophenol 2-monooxygenase (1.14.13.31)  
 114/13032 . . Albendazole monooxygenase (1.14.13.32)  
 114/13033 . . 4-Hydroxybenzoate 3-monooxygenase  
 (NAD(P)H)(1.14.13.33)  
 114/13034 . . Leukotriene-E4 20-monooxygenase (1.14.13.34)  
 114/13035 . . Anthranilate 3-monooxygenase (deaminating)  
 (1.14.13.35)  
 114/13036 . . 5-O-(4-Coumaroyl)-D-quininate 3'-monooxygenase  
 (1.14.13.36)  
 114/13037 . . Methyltetrahydroprotoberberine 14-  
 monooxygenase (1.14.13.37)  
 114/13038 . . Anhydrotetracycline monooxygenase (1.14.13.38)  
 114/13039 . . Nitric-oxide synthase (NADPH dependent)  
 (1.14.13.39)  
 114/1304 . . Anthraniloyl-CoA monooxygenase (1.14.13.40)  
 114/13041 . . Tyrosine N-monooxygenase (1.14.13.41)  
 114/13043 . . Questin monooxygenase (1.14.13.43)  
 114/13044 . . 2-Hydroxybiphenyl 3-monooxygenase  
 (1.14.13.44)  
 114/13046 . . (-)-Menthol monooxygenase (1.14.13.46)  
 114/13047 . . (S)-Limonene 3-monooxygenase (1.14.13.47)  
 114/13048 . . (S)-Limonene 6-monooxygenase (1.14.13.48)  
 114/13049 . . (S)-Limonene 7-monooxygenase (1.14.13.49)  
 114/1305 . . Pentachlorophenol monooxygenase (1.14.13.50)  
 114/13051 . . 6-Oxocineole dehydrogenase (1.14.13.51)  
 114/13052 . . Isoflavone 3'-hydroxylase (1.14.13.52)  
 114/13053 . . 4'-Methoxyisoflavone 2'-hydroxylase (1.14.13.53)  
 114/13054 . . Ketosteroid monooxygenase (1.14.13.54)  
 114/13055 . . Protopine 6-monooxygenase (1.14.13.55)  
 114/13056 . . Dihydrosanguinarine 10-monooxygenase  
 (1.14.13.56)  
 114/13057 . . Dihydrochelirubine 12-monooxygenase  
 (1.14.13.57)  
 114/13058 . . Benzoyl-CoA 3-monooxygenase (1.14.13.58)  
 114/13059 . . L-Lysine N6-monooxygenase (NADPH)  
 (1.14.13.59)  
 114/1306 . . 27-Hydroxycholesterol 7-alpha-monooxygenase  
 (1.14.13.60)  
 114/13061 . . 2-Hydroxyquinoline 8-monooxygenase  
 (1.14.13.61)  
 114/13062 . . 4-Hydroxyquinoline 3-monooxygenase  
 (1.14.13.62)  
 114/13063 . . 3-Hydroxyphenylacetate 6-hydroxylase  
 (1.14.13.63)  
 114/13064 . . 4-Hydroxybenzoate 1-hydroxylase (1.14.13.64)  
 114/13066 . . 2-Hydroxycyclohexanone 2-monooxygenase  
 (1.14.13.66)  
 114/13067 . . Quinine 3-monooxygenase (1.14.13.67)  
 114/13068 . . 4-Hydroxyphenylacetaldehyde oxime  
 monooxygenase (1.14.13.68)  
 114/13069 . . Alkene monooxygenase (1.14.13.69)  
 114/1307 . . Sterol 14-demethylase (1.14.13.70)  
 114/13071 . . N-Methylcoclaurine 3'-monooxygenase  
 (1.14.13.71)  
 114/13072 . . Methylsterol monooxygenase (1.14.13.72)  
 114/13073 . . Tabersonine 16-hydroxylase (1.14.13.73)  
 114/13074 . . 7-Deoxyloganin 7-hydroxylase (1.14.13.74)  
 114/13075 . . Vinorine hydroxylase (1.14.13.75)  
 114/13076 . . Taxane 10-beta-hydroxylase (1.14.13.76)  
 114/13077 . . Taxane 13-alpha-hydroxylase (1.14.13.77)  
 114/13078 . . Ent-kaurene oxidase (1.14.13.78)  
 114/13079 . . Ent-kaurenoic acid oxidase (1.14.13.79)  
 114/1308 . . (R)-Limonene 6-monooxygenase (1.14.13.80)  
 114/13081 . . Magnesium-protoporphyrin IX monomethyl ester  
 (oxidative) cyclase (1.14.13.81)  
 114/13082 . . Vanillate monooxygenase (1.14.13.82)  
 114/13083 . . Precorrin-3B synthase (1.14.13.83)  
 114/13084 . . 4-Hydroxyacetophenone monooxygenase  
 (1.14.13.84)  
 114/13085 . . Glyceollin synthase (1.14.13.85)  
 114/13086 . . 2-Hydroxyisoflavanone synthase (1.14.13.86)  
 114/13087 . . Licodione synthase (1.14.13.87)  
 114/13088 . . Flavonoid 3',5'-hydroxylase (1.14.13.88)  
 114/13089 . . Isoflavone 2'-hydroxylase (1.14.13.89)  
 114/1309 . . Zeaxanthin epoxidase (1.14.13.90)  
 114/13091 . . Deoxysarpagine hydroxylase (1.14.13.91)  
 114/13092 . . Phenylacetone monooxygenase (1.14.13.92)  
 114/13093 . . (+)-Abscisic acid 8'-hydroxylase (1.14.13.93)  
 114/13094 . . Lithocholate 6-beta-hydroxylase (1.14.13.94)  
 114/13095 . . 7-Alpha-hydroxycholest-4-en-3-one 12-alpha-  
 hydroxylase (1.14.13.95)  
 114/13096 . . 5-Beta-cholestane-3-alpha,7-alpha-diol 12-alpha-  
 hydroxylase (1.14.13.96)  
 114/13097 . . Taurochenodeoxycholate 6-alpha-hydroxylase  
 (1.14.13.97)  
 114/13098 . . Cholesterol 24-hydroxylase (1.14.13.98)  
 114/13099 . . 24-Hydroxycholesterol 7-alpha-hydroxylase  
 (1.14.13.99)  
 114/131 . . 25-Hydroxycholesterol 7-alpha-hydroxylase  
 (1.14.13.100)  
 114/13101 . . Senecionine N-oxygenase (1.14.13.101)

- 114/13102 . . Psoralen synthase (1.14.13.102)
- 114/13103 . . 8-Dimethylallylnaringenin 2'-hydroxylase (1.14.13.103)
- 114/13104 . . (+)-Menthofuran synthase (1.14.13.104)
- 114/13105 . . Monocyclic monoterpene ketone monooxygenase (1.14.13.105)
- 114/13106 . . Epi-isozizaene 5-monooxygenase (1.14.13.106)
- 114/13107 . . Limonene 1,2-monooxygenase (1.14.13.107)
- 114/13108 . . Abieta-7,13-diene hydroxylase (1.14.13.108)
- 114/13109 . . Abieta-7,13-dien-18-ol hydroxylase (1.14.13.109)
- 114/1311 . . Geranylgeraniol 18-hydroxylase (1.14.13.110)
- 114/13111 . . Methanesulfonate monooxygenase (1.14.13.111)
- 114/13112 . . 3-Epi-6-deoxocathasterone 23-monooxygenase (1.14.13.112)
- 114/13113 . . FAD-dependent urate hydroxylase (1.14.13.113)
- 114/13114 . . 6-Hydroxynicotinate 3-monooxygenase (1.14.13.114)
- 114/13115 . . Angelicin synthase (1.14.13.115)
- 114/13116 . . Geranylhydroquinone 3"-hydroxylase (1.14.13.116)
- 114/13117 . . Isoleucine N-monooxygenase (1.14.13.117)
- 114/13118 . . Valine N-monooxygenase (1.14.13.118)
- 114/13119 . . 5-Epiaristolochene 1,3-dihydroxylase (1.14.13.119)
- 114/1312 . . Costunolide synthase (1.14.13.120)
- 114/13121 . . Premnaspirodien oxygenase (1.14.13.121)
- 114/13122 . . Chlorophyllide-a oxygenase (1.14.13.122)
- 114/13123 . . Germacrene A hydroxylase (1.14.13.123)
- 114/13124 . . Phenylalanine N-monooxygenase (1.14.13.124)
- 114/13125 . . Tryptophan N-monooxygenase (1.14.13.125)
- 114/13126 . . Vitamin D3 24-hydroxylase (1.14.13.126)
- 114/13127 . . 3-(3-Hydroxy-phenyl)propanoic acid hydroxylase (1.14.13.127)
- 114/13128 . . 7-Methylxanthine demethylase (1.14.13.128)
- 114/13129 . . Beta-carotene 3-hydroxylase (1.14.13.129)
- 114/1313 . . Pyrrole-2-carboxylate monooxygenase (1.14.13.130)
- 114/13131 . . Dimethyl-sulfide monooxygenase (1.14.13.131)
- 114/13132 . . Squalene monooxygenase (1.14.13.132)
- 114/13133 . . Pentalene oxygenase (1.14.13.133)
- 114/13134 . . Beta-amyrin 11-oxidase (1.14.13.134)
- 114/13135 . . 1-Hydroxy-2-naphthoate hydroxylase (1.14.13.135)
- 114/13136 . . Isoflavonoid synthase (1.14.13.136)
- 114/13137 . . Indole-2-monooxygenase (1.14.13.137)
- 114/13138 . . Indolin-2-one monooxygenase (1.14.13.138)
- 114/13139 . . 3-Hydroxyindolin-2-one monooxygenase (1.14.13.139)
- 114/1314 . . 2-Hydroxy-1,4-benzoxazin-3-one monooxygenase (1.14.13.140)
- 114/13141 . . Cholest-4-en-3-one 26-monooxygenase (1.14.13.141)
- 114/13142 . . 3-Ketosteroid 9alpha-monooxygenase (1.14.13.142)
- 114/13143 . . Ent-isokaurene C2-hydroxylase (1.14.13.143)
- 114/13144 . . 9Beta-pimara-7,15-diene oxidase (1.14.13.144)
- 114/13145 . . Ent-cassa-12,15-diene 11-hydroxylase (1.14.13.145)
- 114/13146 . . Taxoid 14beta-hydroxylase (1.14.13.146)
- 114/13147 . . Taxoid 7beta-hydroxylase (1.14.13.147)
- 114/13148 . . Trimethylamine monooxygenase (1.14.13.148)
- 114/13149 . . Phenylacetyl-CoA 1,2-epoxidase (1.14.13.149)
- 114/1315 . . Alpha-humulene 10-hydroxylase (1.14.13.150)
- 114/13151 . . Linalool 8-monooxygenase (1.14.13.151)
- 114/13152 . . Geraniol 8-hydroxylase (1.14.13.152)
- 114/13153 . . (+)-Sabinene 3-hydroxylase (1.14.13.153)
- 114/13154 . . Erythromycin 12 hydroxylase (1.14.13.154)
- 114/13155 . . Alpha-pinene monooxygenase (1.14.13.155)
- 114/13156 . . 1,8-Cineole 2-endo-monooxygenase (1.14.13.156)
- 114/13157 . . 1,8-Cineole 2-exo-monooxygenase (1.14.13.157)
- 114/13158 . . Amorpha-4,11-diene 12-monooxygenase (1.14.13.158)
- 114/13159 . . Vitamin D 25-hydroxylase (1.14.13.159)
- 114/1316 . . (2,2,3-Trimethyl-5-oxocyclopent-3-enyl)acetyl-CoA 1,5-monooxygenase (1.14.13.160)
- 114/13161 . . (+)-Camphor 6-exo-hydroxylase (1.14.13.161)
- 114/13162 . . 2,5-Diketocamphane 1,2-monooxygenase (1.14.13.162), i.e. camphor 1,2-monooxygenase
- 114/13163 . . 6-Hydroxy-3-succinoylpyridine 3-monooxygenase (1.14.13.163)
- 114/13165 . . Nitric-oxide synthase [NAD(P)H-dependent] (1.14.13.165)
- 114/13166 . . 4-Nitrocatechol 4-monooxygenase (1.14.13.166)
- 114/13167 . . 4-Nitrophenol 4-monooxygenase (1.14.13.167)
- 114/13168 . . Indole-3-pyruvate monooxygenase (1.14.13.168)
- 114/13169 . . Sphinganine C4-monooxygenase (1.14.13.169)
- 114/1317 . . Pentalenolactone D synthase (1.14.13.170)
- 114/13171 . . Neopentalenolactone D synthase (1.14.13.171)
- 114/1381 . . L-Ornithine N5-monooxygenase (1.14.13.B10)
- 114/14 . . with reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen (1.14.14)
- 114/14001 . . Unspecific monooxygenase (1.14.14.1)
- 114/14003 . . Alkanal monooxygenase FMN (1.14.14.3), i.e. bacterial-luciferase
- 114/14005 . . Alkanesulfonate monooxygenase (1.14.14.5)
- 114/14007 . . Tryptophan 7-halogenase (1.14.14.7)
- 114/14008 . . Anthranilate 3-monooxygenase (FAD) (1.14.14.8)
- 114/14009 . . 4-Hydroxyphenylacetate 3-monooxygenase (1.14.14.9)
- 114/1401 . . Nitritotriacetate monooxygenase (1.14.14.10)
- 114/14011 . . Styrene monooxygenase (1.14.14.11)
- 114/14012 . . 3-Hydroxy-9,10-seconandrost-1,3,5(10)-triene-9,17-dione monooxygenase (1.14.14.12)
- 114/14013 . . 4-(L-Gamma-glutamylamino)butanoyl-[BtrI acyl-carrier protein] monooxygenase (1.14.14.13)
- 114/15 . . with reduced iron-sulfur protein as one donor, and incorporation of one atom of oxygen (1.14.15)
- 114/15001 . . Camphor 5-monooxygenase (1.14.15.1)
- 114/15003 . . Alkane 1-monooxygenase (1.14.15.3)
- 114/15004 . . Steroid 11-beta-monooxygenase (1.14.15.4)
- 114/15005 . . Corticosterone 18-monooxygenase (1.14.15.5)
- 114/15006 . . Cholesterol monooxygenase (side-chain-cleaving) (1.14.15.6), i.e. cytochrome P450sc
- 114/15007 . . Choline monooxygenase (1.14.15.7)
- 114/15008 . . Steroid 15-beta-monooxygenase (1.14.15.8)
- 114/15009 . . Spheroidene monooxygenase (1.14.15.9)
- 114/1501 . . (+)-Camphor 6-endo-hydroxylase (1.14.15.10)
- 114/15011 . . Pentalenic acid synthase (1.14.15.11)
- 114/15802 . . Spheroidene monooxygenase (1.14.15.B2), i.e. acyclic carotenoid 2-ketolase
- 114/16 . . with reduced pteridine as one donor, and incorporation of one atom of oxygen (1.14.16)
- 114/16001 . . Phenylalanine 4-monooxygenase (1.14.16.1)



- 114/16002 . . Tyrosine 3-monooxygenase (1.14.16.2)  
 114/16003 . . Anthranilate 3-monooxygenase (1.14.16.3)  
 114/16004 . . Tryptophan 5-monooxygenase (1.14.16.4)  
 114/16005 . . Alkylglycerol monooxygenase (1.14.16.5)  
 114/16006 . . Mandelate 4-monooxygenase (1.14.16.6)  
 114/17 . . with reduced ascorbate as one donor, and incorporation of one atom of oxygen (1.14.17)  
 114/17001 . . Dopamine beta-monooxygenase (1.14.17.1)  
 114/17003 . . Peptidylglycine monooxygenase (1.14.17.3)  
 114/17004 . . Aminocyclopropanecarboxylate oxidase (1.14.17.4), i.e. ethylene-forming enzyme  
 114/18 . . with another compound as one donor, and incorporation of one atom of oxygen (1.14.18)  
 114/18001 . . Tyrosinase (1.14.18.1)  
 114/18002 . . CMP-N-acetylneuraminate monooxygenase (1.14.18.2)  
 114/18003 . . Methane monooxygenase (particulate) (1.14.18.3)  
 114/19 . . with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water (1.14.19)  
 114/19001 . . Stearoyl-CoA 9-desaturase (1.14.19.1), i.e. DELTA9-desaturase  
 114/19002 . . Acyl-[acyl-carrier-protein] desaturase (1.14.19.2)  
 114/19003 . . Linoleoyl-CoA desaturase (1.14.19.3)  
 114/19004 . . DELTA8-fatty-acid desaturase (1.14.19.4)  
 114/19005 . . DELTA11-fatty-acid desaturase (1.14.19.5)  
 114/19006 . . DELTA12-fatty-acid desaturase (1.14.19.6), i.e. oleoyl-CoA DELTA12 desaturase  
 114/19007 . . (S)-2-Hydroxypropylphosphonic acid epoxidase (1.14.19.7)  
 114/20 . . with 2-oxoglutarate as one donor, and the other dehydrogenated (1.14.20)  
 114/20001 . . Deacetoxycephalosporin-C synthase (1.14.20.1)  
 114/20002 . . 2,4-Dihydroxy-1,4-benzoxazin-3-one-glucoside dioxygenase (1.14.20.2)  
 114/21 . . with NADH or NADPH as one donor, and the other dehydrogenated (1.14.21)  
 114/21001 . . (S)-Stylopine synthase (1.14.21.1)  
 114/21002 . . (S)-Cheilanthifoline synthase (1.14.21.2)  
 114/21003 . . Berbamunine synthase (1.14.21.3)  
 114/21004 . . Salutaridine synthase (1.14.21.4)  
 114/21005 . . (S)-Canadine synthase (1.14.21.5)  
 114/21006 . . Lathosterol oxidase (1.14.21.6), i.e. C-5 sterol desaturase  
 114/21007 . . Biflavinol synthase (1.14.21.7)  
 114/21008 . . Pseudobaptigenin synthase (1.14.21.8)  
 114/99 . . Miscellaneous (1.14.99)  
 114/99001 . . Prostaglandin-endoperoxide synthase (1.14.99.1), i.e. cyclooxygenase  
 114/99002 . . Kynurenine 7,8-hydroxylase (1.14.99.2)  
 114/99003 . . Heme oxygenase (1.14.99.3)  
 114/99004 . . Progesterone monooxygenase (1.14.99.4)  
 114/99007 . . Squalene monooxygenase (1.14.99.7)  
 114/99009 . . Steroid 17-alpha-monooxygenase (1.14.99.9), i.e. cytochrome-P450-steroid-17-alpha-hydroxylase  
 114/9901 . . Steroid 21-monooxygenase (1.14.99.10), i.e. steroid cytochrome P450 21-hydroxylase  
 114/99011 . . Estradiol 6-beta-monooxygenase (1.14.99.11)  
 114/99012 . . Androst-4-ene-3,17-dione monooxygenase (1.14.99.12)  
 114/99014 . . Progesterone 11-alpha-monooxygenase (1.14.99.14)  
 114/99015 . . 4-Methoxybenzoate monooxygenase (O-demethylating) (1.14.99.15)  
 114/99019 . . Plasmanylethanolamine desaturase (1.14.99.19)  
 114/9902 . . Phylloquinone monooxygenase (2,3-epoxidizing) (1.14.99.20)  
 114/99021 . . Latia-luciferin monooxygenase (demethylating) (1.14.99.21), i.e. Latia luciferase  
 114/99022 . . Ecdysone 20-monooxygenase (1.14.99.22)  
 114/99023 . . 3-Hydroxybenzoate 2-monooxygenase (1.14.99.23)  
 114/99024 . . Steroid 9-alpha-monooxygenase (1.14.99.24)  
 114/99026 . . 2-Hydroxypyridine 5-monooxygenase (1.14.99.26)  
 114/99027 . . Juglone 3-monooxygenase (1.14.99.27)  
 114/99029 . . Deoxyhypusine monooxygenase (1.14.99.29)  
 114/99031 . . Myristoyl-CoA 11-(E) desaturase (1.14.99.31)  
 114/99032 . . Myristoyl-CoA 11-(Z) desaturase (1.14.99.32)  
 114/99033 . . DELTA12-fatty acid dehydrogenase (1.14.99.33)  
 114/99034 . . Monoprenyl isoflavone epoxidase (1.14.99.34)  
 114/99035 . . Thiophene-2-carbonyl-CoA monooxygenase (1.14.99.35)  
 114/99036 . . Beta-carotene 15,15'-monooxygenase (1.14.99.36)  
 114/99037 . . Taxadiene 5-alpha-hydroxylase (1.14.99.37)  
 114/99038 . . Cholesterol 25-hydroxylase (1.14.99.38)  
 114/99039 . . Ammonia monooxygenase (1.14.99.39)  
 114/9904 . . 5,6-Dimethylbenzimidazole synthase (1.14.99.40)  
 114/99041 . . All-trans-8'-apo-beta-carotenal 15,15'-oxygenase (1.14.99.41)  
 114/99042 . . Zeaxanthin 7,8-dioxygenase (1.14.99.42)  
 114/99043 . . Beta-amyrin 24-hydroxylase (1.14.99.43)  
 114/99044 . . Diapolycopene oxygenase (1.14.99.44)  
 114/99045 . . Carotene epsilon-monooxygenase (1.14.99.45)  
 114/99046 . . Pyrimidine oxygenase (1.14.99.46)  
 114/99047 . . (+)-Larreatricin hydroxylase (1.14.99.47)  
**115/00 Oxidoreductases acting on superoxide as acceptor (1.15)**  
 115/01 . . with NAD or NADP as acceptor (1.15.1)  
 115/01001 . . Superoxide dismutase (1.15.1.1)  
 115/01002 . . Superoxide reductase (1.15.1.2)  
**116/00 Oxidoreductases oxidizing metal ions (1.16)**  
 116/01 . . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.16.1)  
 116/01001 . . Mercury(II) reductase (1.16.1.1)  
 116/01002 . . Diferric-transferrin reductase (1.16.1.2)  
 116/01003 . . Aquacobalamin reductase (1.16.1.3)  
 116/01004 . . Cob(II)alamin reductase (1.16.1.4)  
 116/01005 . . Aquacobalamin reductase (NADPH) (1.16.1.5)  
 116/01006 . . Cyanocobalamin reductase (cyanide-eliminating) (1.16.1.6)  
 116/01007 . . Ferric-chelate reductase (NADH) (1.16.1.7)  
 116/01008 . . [Methionine synthase] reductase (1.16.1.8)  
 116/01009 . . Ferric-chelate reductase (NADPH) (1.16.1.9)  
 116/03 . . with oxygen as acceptor (1.16.3)  
 116/03001 . . Ferroxidase (1.16.3.1), i.e. ceruloplasmin  
 116/05 . . with a quinone or similar compound as acceptor (1.16.5)  
 116/05001 . . Ascorbate ferrireductase (transmembrane) (1.16.5.1)  
 116/08 . . with flavin as acceptor (1.16.8)  
 116/08001 . . Cob(II)yrinic acid a,c-diamide reductase (1.16.8.1)

- 116/09 . with a copper protein as acceptor (1.16.9)  
 116/09001 . . Iron:rusticyanin reductase (1.16.9.1)  
 116/98 . with other, known, acceptors (1.16.98)
- 117/00 Oxidoreductases acting on CH or CH<sub>2</sub> groups (1.17)**
- 117/01 . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.17.1)  
 117/01001 . . CDP-4-dehydro-6-deoxyglucose reductase (1.17.1.1)  
 117/01002 . . 4-Hydroxy-3-methylbut-2-enyl diphosphate reductase (1.17.1.2)  
 117/01003 . . Leucoanthocyanidin reductase (1.17.1.3)  
 117/01004 . . Xanthine dehydrogenase (1.17.1.4)  
 117/01005 . . Nicotinate dehydrogenase (1.17.1.5)  
 117/01007 . . 3-Oxo-5,6-dehydrosuberyl-CoA semialdehyde dehydrogenase (1.17.1.7)  
 117/02 . with a cytochrome as acceptor (1.17.2)  
 117/02001 . . Nicotinate dehydrogenase (cytochrome) (1.17.2.1)  
 117/02002 . . Lupanine 17-hydroxylase (cytochrome c) (1.17.2.2)  
 117/03 . with oxygen as acceptor (1.17.3)  
 117/03001 . . Pteridine oxidase (1.17.3.1)  
 117/03002 . . Xanthine oxidase (1.17.3.2)  
 117/03003 . . 6-Hydroxynicotinate dehydrogenase (1.17.3.3)  
 117/04 . with a disulfide as acceptor (1.17.3)  
 117/04001 . . Ribonucleoside-diphosphate reductase (1.17.4.1)  
 117/04002 . . Ribonucleoside-triphosphate reductase (1.17.4.2)  
 117/05 . with a quinone or similar compound as acceptor (1.17.5)  
 117/05001 . . Phenylacetyl-CoA dehydrogenase (1.17.5.1)  
 117/05002 . . Caffeine dehydrogenase (1.17.5.2)  
 117/07 . with an iron-sulfur protein as acceptor (1.17.7)  
 117/07001 . . (E)-4-Hydroxy-3-methylbut-2-enyl-diphosphate synthase (1.17.7.1)  
 117/07002 . . 7-Hydroxymethyl chlorophyll a reductase (1.17.7.2)  
 117/99 . with other acceptors (1.17.99)  
 117/99001 . . 4-Methylphenol dehydrogenase (hydroxylating) (1.17.99.1)  
 117/99002 . . Ethylbenzene hydroxylase (1.17.99.2)  
 117/99003 . . 3-Alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA 24-hydroxylase (1.17.99.3)  
 117/99004 . . Uracil/thymine dehydrogenase (1.17.99.4)  
 117/99005 . . Bile-acid 7-alpha-dehydroxylase (1.17.99.5)
- 118/00 Oxidoreductases acting on iron-sulfur proteins as donors (1.18)**
- 118/01 . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.18.1)  
 118/01001 . . Rubredoxin--NAD<sup>+</sup> reductase (1.18.1.1)  
 118/01002 . . Ferredoxin--NADP<sup>+</sup> reductase (1.18.1.2)  
 118/01003 . . Ferredoxin--NAD<sup>+</sup> reductase (1.18.1.3)  
 118/01004 . . Rubredoxin--NAD(P)<sup>+</sup> reductase (1.18.1.4)  
 118/01005 . . Putidaredoxin--NAD<sup>+</sup> reductase (1.18.1.5)  
 118/01006 . . Adrenodoxin--NADP<sup>+</sup> reductase (1.18.1.6)  
 118/06 . with dinitrogen as acceptor (1.18.6)  
 118/06001 . . Nitrogenase (1.18.6.1)
- 119/00 Oxidoreductases acting on reduced flavodoxin as donor (1.19)**
- 119/06 . with dinitrogen as acceptor (1.19.6)  
 119/06001 . . Nitrogenase (flavodoxin) (1.19.6.1)
- 120/00 Oxidoreductases acting on phosphorus or arsenic in donors (1.20)**
- 120/01 . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.20.1)  
 120/01001 . . Phosphonate dehydrogenase (1.20.1.1)  
 120/02 . with a cytochrome as acceptor (1.20.2)  
 120/02001 . . Arsenate reductase (cytochrome c)(1.20.2.1)  
 120/04 . acting on phosphorus or arsenic in donors, with disulfide as acceptor (1.20.4)  
 120/04001 . . Arsenate reductase (1.20.4.1), i.e. glutaredoxin  
 120/04002 . . Methylarsonate reductase (1.20.4.2)  
 120/04003 . . Mycoredoxin (1.20.4.3)  
 120/09 . with a copper protein as acceptor (1.20.9)  
 120/09001 . . Arsenate reductase (azurin) (1.20.9.1)  
 120/99 . with other acceptors (1.20.99)  
 120/99001 . . Arsenate reductase (donor) (1.20.99.1)
- 121/00 Oxidoreductases acting on X-H and Y-H to form an X-Y bond (1.21)**
- 121/03 . with oxygen as acceptor (1.21.3)  
 121/03001 . . Isopenicillin-N synthase (1.21.3.1)  
 121/03002 . . Columbamine oxidase (1.21.3.2)  
 121/03003 . . Reticuline oxidase (1.21.3.3)  
 121/03004 . . Sulochrin oxidase ((+)-bisdechlorogeodin-forming)(1.21.3.4)  
 121/03005 . . Sulochrin oxidase ((-)-bisdechlorogeodin-forming)(1.21.3.5)  
 121/03006 . . Aureusidin synthase (1.21.3.6)  
 121/03007 . . Tetrahydrocannabinolic acid synthase (1.21.3.7)  
 121/03008 . . Cannabidiolic acid synthase (1.21.3.8)  
 121/04 . with a disulfide as acceptor (1.21.4)  
 121/04001 . . D-Proline reductase (dithiol) (1.21.4.1)  
 121/04002 . . Glycine reductase (1.21.4.2)  
 121/04003 . . Sarcosine reductase (1.21.4.3)  
 121/04004 . . Betaine reductase (1.21.4.4)  
 121/99 . with other acceptors (1.21.99)  
 121/99001 . . Beta-cyclopiazonate dehydrogenase (1.21.99.1)
- 122/00 Oxidoreductases acting on halogen in donors (1.22)**
- 122/01 . with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor (1.22.1)  
 122/01001 . . Iodotyrosine deiodinase (1.22.1.1)
- 197/00 Other oxidoreductases (1.97)**
- 197/01 . other oxidoreductases (1.97.1)  
 197/01001 . . Chlorate reductase (1.97.1.1)  
 197/01002 . . Pyrogallol hydroxytransferase (1.97.1.2)  
 197/01003 . . Sulfur reductase (1.97.1.3)  
 197/01004 . . [Formate-C-acetyltransferase]-activating enzyme (1.97.1.4)  
 197/01008 . . Tetrachloroethene reductive dehalogenase (1.97.1.8)  
 197/01009 . . Selenate reductase (1.97.1.9)  
 197/0101 . . Thyroxine 5'-deiodinase (1.97.1.10), i.e. deiodinase I or II  
 197/01011 . . Thyroxine 5-deiodinase (1.97.1.11), i.e. deiodinase III  
 197/01012 . . Photosystem I (1.97.1.12)
- 201/00 Transferases transferring one-carbon groups (2.1)**
- 201/01 . Methyltransferases (2.1.1)  
 201/01001 . . Nicotinamide N-methyltransferase (2.1.1.1)  
 201/01002 . . Guanidinoacetate N-methyltransferase (2.1.1.2)  
 201/01003 . . Thetin--homocysteine S-methyltransferase (2.1.1.3)  
 201/01004 . . Acetylserotonin O-methyltransferase (2.1.1.4)

- 201/01005 . . Betaine--homocysteine S-methyltransferase (2.1.1.5)
- 201/01006 . . Catechol O-methyltransferase (2.1.1.6)
- 201/01007 . . Nicotinate N-methyltransferase (2.1.1.7)
- 201/01008 . . Histamine N-methyltransferase (2.1.1.8)
- 201/01009 . . Thiol S-methyltransferase (2.1.1.9)
- 201/0101 . . Homocysteine S-methyltransferase (2.1.1.10)
- 201/01011 . . Magnesium protoporphyrin IX methyltransferase (2.1.1.11)
- 201/01012 . . Methionine S-methyltransferase (2.1.1.12)
- 201/01013 . . Methionine synthase (2.1.1.13)
- 201/01014 . . 5-Methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase (2.1.1.14)
- 201/01015 . . Fatty-acid O-methyltransferase (2.1.1.15)
- 201/01016 . . Methylene-fatty-acyl-phospholipid synthase (2.1.1.16)
- 201/01017 . . Phosphatidylethanolamine N-methyltransferase (2.1.1.17)
- 201/01018 . . Polysaccharide O-methyltransferase (2.1.1.18)
- 201/01019 . . Trimethylsulfonium--tetrahydrofolate N-methyltransferase (2.1.1.19)
- 201/0102 . . Glycine N-methyltransferase (2.1.1.20)
- 201/01021 . . Methylamine--glutamate N-methyltransferase (2.1.1.21)
- 201/01022 . . Carnosine N-methyltransferase (2.1.1.22)
- 201/01023 . . Protein-arginine N-methyltransferase (2.1.1.23) ([C12Y 201/01124](#) - [C12Y 201/01126](#) take precedence)
- 201/01024 . . Protein-gamma-glutamate O-methyltransferase (2.1.1.24) ([C12Y 201/01077](#), [C12Y 201/0108](#), [C12Y 201/011](#) take precedence)
- 201/01025 . . Phenol O-methyltransferase (2.1.1.25)
- 201/01026 . . Iodophenol O-methyltransferase (2.1.1.26)
- 201/01027 . . Tyramine N-methyltransferase (2.1.1.27)
- 201/01028 . . Phenylethanolamine N-methyltransferase (2.1.1.28)
- 201/01029 . . tRNA (cytosine-5-)-methyltransferase (2.1.1.29) ([C12Y 201/01202](#) - [C12Y 201/01204](#) take precedence)
- 201/01031 . . tRNA (guanine-N1-)-methyltransferase (2.1.1.31) ([C12Y 201/01221](#), [C12Y 201/01228](#) take precedence)
- 201/01032 . . tRNA (guanine-N2-)-methyltransferase (2.1.1.32) ([C12Y 201/01213](#) - [C12Y 201/01216](#) take precedence)
- 201/01033 . . tRNA (guanine-N7-)-methyltransferase (2.1.1.33)
- 201/01034 . . tRNA (guanosine18-2'-O)-methyltransferase (2.1.1.34)
- 201/01035 . . tRNA (uracil-5-)-methyltransferase (2.1.1.35)
- 201/01036 . . tRNA (adenine-N1-)-methyltransferase (2.1.1.36) ([C12Y 201/01217](#) - [C12Y 201/0122](#) take precedence)
- 201/01037 . . DNA (cytosine-5-)-methyltransferase (2.1.1.37)
- 201/01038 . . O-Demethylpuromycin O-methyltransferase (2.1.1.38)
- 201/01039 . . Inositol 3-methyltransferase (2.1.1.39)
- 201/0104 . . Inositol 1-methyltransferase (2.1.1.40)
- 201/01041 . . Sterol 24-C-methyltransferase (2.1.1.41)
- 201/01042 . . Flavone 3'-O-methyltransferase (2.1.1.42)
- 201/01043 . . Histone-lysine N-methyltransferase (2.1.1.43)
- 201/01044 . . Dimethylhistidine N-methyltransferase (2.1.1.44)
- 201/01045 . . Thymidylate synthase (2.1.1.45)
- 201/01046 . . Isoflavone 4'-O-methyltransferase (2.1.1.46)
- 201/01047 . . Indolepyruvate C-methyltransferase (2.1.1.47)
- 201/01048 . . rRNA (adenine-N6-)-methyltransferase (2.1.1.48) ([C12Y 201/01181](#) - [C12Y 201/01184](#) take precedence)
- 201/01049 . . Amine N-methyltransferase (2.1.1.49)
- 201/0105 . . Loganate O-methyltransferase (2.1.1.50)
- 201/01051 . . rRNA (guanine-N1-)-methyltransferase (2.1.1.51) ([C12Y 201/01187](#), [C12Y 201/01188](#) take precedence)
- 201/01052 . . rRNA (guanine-N2-)-methyltransferase (2.1.1.52) ([C12Y 201/01171](#) - [C12Y 201/01174](#) take precedence)
- 201/01053 . . Putrescine N-methyltransferase (2.1.1.53)
- 201/01054 . . Deoxycytidylate C-methyltransferase (2.1.1.54)
- 201/01055 . . tRNA (adenine-N6-)-methyltransferase (2.1.1.55)
- 201/01056 . . mRNA (guanine-N7-)-methyltransferase (2.1.1.56)
- 201/01057 . . mRNA (nucleoside-2'-O-)-methyltransferase (2.1.1.57)
- 201/01059 . . [Cytochrome c]-lysine N-methyltransferase (2.1.1.59)
- 201/0106 . . Calmodulin-lysine N-methyltransferase (2.1.1.60)
- 201/01061 . . tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase (2.1.1.61)
- 201/01062 . . mRNA (2'-O-methyladenosine-N6-)-methyltransferase (2.1.1.62)
- 201/01063 . . Methylated-DNA-[protein]-cysteine S-methyltransferase (2.1.1.63), i.e. O6-methylguanine-DNA methyltransferase
- 201/01064 . . 3-Demethylubiquinol 3-O-methyltransferase (2.1.1.64)
- 201/01065 . . Licodione 2'-O-methyltransferase (2.1.1.65)
- 201/01066 . . rRNA (adenosine-2'-O-)-methyltransferase (2.1.1.66)
- 201/01067 . . Thiopurine S-methyltransferase (2.1.1.67)
- 201/01068 . . Caffaeate O-methyltransferase (2.1.1.68)
- 201/01069 . . 5-Hydroxyfuranocoumarin 5-O-methyltransferase (2.1.1.69)
- 201/0107 . . 8-Hydroxyfuranocoumarin 8-O-methyltransferase (2.1.1.70)
- 201/01071 . . Phosphatidyl-N-methylethanolamine N-methyltransferase (2.1.1.71)
- 201/01072 . . Site-specific DNA-methyltransferase (adenine-specific) (2.1.1.72)
- 201/01074 . . Methylene-tetrahydrofolate--tRNA-(uracil54-C5)-methyltransferase (FADH2-oxidizing) (2.1.1.74)
- 201/01075 . . Apigenin 4'-O-methyltransferase (2.1.1.75)
- 201/01076 . . Quercetin 3-O-methyltransferase (2.1.1.76)
- 201/01077 . . Protein-L-isoaspartate(D-aspartate) O-methyltransferase (2.1.1.77)
- 201/01078 . . Isoorientin 3'-O-methyltransferase (2.1.1.78)
- 201/01079 . . Cyclopropane-fatty-acyl-phospholipid synthase (2.1.1.79)
- 201/0108 . . Protein-glutamate O-methyltransferase (2.1.1.80)
- 201/01082 . . 3-Methylquercetin 7-O-methyltransferase (2.1.1.82)
- 201/01083 . . 3,7-Dimethylquercetin 4'-O-methyltransferase (2.1.1.83)
- 201/01084 . . Methylquercetagenin 6-O-methyltransferase (2.1.1.84)
- 201/01085 . . Protein-histidine N-methyltransferase (2.1.1.85)
- 201/01086 . . Tetrahydromethanopterin S-methyltransferase (2.1.1.86)

- 201/01087 . . Pyridine N-methyltransferase (2.1.1.87)
- 201/01088 . . 8-Hydroxyquercetin 8-O-methyltransferase (2.1.1.88)
- 201/01089 . . Tetrahydrocolumbamine 2-O-methyltransferase (2.1.1.89)
- 201/0109 . . Methanol—corrinoïd protein Co-methyltransferase (2.1.1.90)
- 201/01091 . . Isobutyraldoxime O-methyltransferase (2.1.1.91)
- 201/01094 . . Tabersonine 16-O-methyltransferase (2.1.1.94)
- 201/01095 . . Tocopherol O-methyltransferase (2.1.1.95)
- 201/01096 . . Thioether S-methyltransferase (2.1.1.96)
- 201/01097 . . 3-Hydroxyanthranilate 4-C-methyltransferase (2.1.1.97)
- 201/01098 . . Diphthine synthase (2.1.1.98)
- 201/01099 . . 3-Hydroxy-16-methoxy-2,3-dihydrotabersonine N-methyltransferase (2.1.1.99)
- 201/011 . . Protein-S-isoprenylcysteine O-methyltransferase (2.1.1.100)
- 201/01101 . . Macrocin O-methyltransferase (2.1.1.101)
- 201/01102 . . Demethylmacrocin O-methyltransferase (2.1.1.102)
- 201/01103 . . Phosphoethanolamine N-methyltransferase (2.1.1.103)
- 201/01104 . . Caffeoyl-CoA O-methyltransferase (2.1.1.104)
- 201/01105 . . N-Benzoyl-4-hydroxyanthranilate 4-O-methyltransferase (2.1.1.105)
- 201/01106 . . Tryptophan 2-C-methyltransferase (2.1.1.106)
- 201/01107 . . Uroporphyrinogen-III C-methyltransferase (2.1.1.107)
- 201/01108 . . 6-Hydroxymellein O-methyltransferase (2.1.1.108)
- 201/01109 . . Demethylsterigmatocystin 6-O-methyltransferase (2.1.1.109)
- 201/0111 . . Sterigmatocystin 8-O-methyltransferase (2.1.1.110)
- 201/01111 . . Anthranilate N-methyltransferase (2.1.1.111)
- 201/01112 . . Glucuronoxylan 4-O-methyltransferase (2.1.1.112)
- 201/01113 . . Site-specific DNA-methyltransferase (cytosine-N4-specific) (2.1.1.113)
- 201/01114 . . Polyprenyldihydroxybenzoate methyltransferase (2.1.1.114)
- 201/01115 . . (RS)-1-Benzyl-1,2,3,4-tetrahydroisoquinoline N-methyltransferase (2.1.1.115)
- 201/01116 . . 3'-Hydroxy-N-methyl-(S)-coclaurine 4'-O-methyltransferase (2.1.1.116)
- 201/01117 . . (S)-Scoulerine 9-O-methyltransferase (2.1.1.117)
- 201/01118 . . Columbamine O-methyltransferase (2.1.1.118)
- 201/01119 . . 10-Hydroxydihydrosanguinarine 10-O-methyltransferase (2.1.1.119)
- 201/0112 . . 12-Hydroxydihydrochelirubine 12-O-methyltransferase (2.1.1.120)
- 201/01121 . . 6-O-Methylnorlaudanosoline 5'-O-methyltransferase (2.1.1.121)
- 201/01122 . . (S)-Tetrahydroprotoberberine N-methyltransferase (2.1.1.122)
- 201/01123 . . [Cytochrome c]-methionine S-methyltransferase (2.1.1.123)
- 201/01124 . . [Cytochrome c]-arginine N-methyltransferase (2.1.1.124)
- 201/01125 . . Histone-arginine N-methyltransferase (2.1.1.125)
- 201/01126 . . [Myelin basic protein]-arginine N-methyltransferase (2.1.1.126)
- 201/01127 . . [Ribulose-bisphosphate carboxylase]-lysine N-methyltransferase (2.1.1.127)
- 201/01128 . . (RS)-Norcoclaurine 6-O-methyltransferase (2.1.1.128)
- 201/01129 . . Inositol 4-methyltransferase (2.1.1.129)
- 201/0113 . . Precorrin-2 C20-methyltransferase (2.1.1.130)
- 201/01131 . . Precorrin-3B C17-methyltransferase (2.1.1.131)
- 201/01132 . . Precorrin-6Y C5,15-methyltransferase (decarboxylating) (2.1.1.132)
- 201/01133 . . Precorrin-4 C11-methyltransferase (2.1.1.133)
- 201/01136 . . Chlorophenol O-methyltransferase (2.1.1.136)
- 201/01137 . . Arsenite methyltransferase (2.1.1.137)
- 201/01139 . . 3'-Demethylstaurosporine O-methyltransferase (2.1.1.139)
- 201/0114 . . (S)-Coclaurine-N-methyltransferase (2.1.1.140)
- 201/01141 . . Jasmonate O-methyltransferase (2.1.1.141)
- 201/01142 . . Cycloartenol 24-C-methyltransferase (2.1.1.142), i.e. sterol C24-methyltransferase
- 201/01143 . . 24-Methylenesterol C-methyltransferase (2.1.1.143), i.e. DELTA24-sterol methyltransferase
- 201/01144 . . Trans-aconitate 2-methyltransferase (2.1.1.144)
- 201/01145 . . Trans-aconitate 3-methyltransferase (2.1.1.145)
- 201/01146 . . (Iso)eugenol O-methyltransferase (2.1.1.146)
- 201/01147 . . Corydaline synthase (2.1.1.147)
- 201/01148 . . Thymidylate synthase (FAD) (2.1.1.148)
- 201/01149 . . Myricetin O-methyltransferase (2.1.1.149)
- 201/0115 . . Isoflavone 7-O-methyltransferase (2.1.1.150)
- 201/01151 . . Cobalt-factor II C20-methyltransferase (2.1.1.151)
- 201/01152 . . Precorrin-6A synthase (deacetylating) (2.1.1.152)
- 201/01153 . . Vitexin 2''-O-rhamnoside 7-O-methyltransferase (2.1.1.153)
- 201/01154 . . Isoliquiritigenin 2'-O-methyltransferase (2.1.1.154)
- 201/01155 . . Kaempferol 4'-O-methyltransferase (2.1.1.155)
- 201/01156 . . Glycine/sarcosine N-methyltransferase (2.1.1.156)
- 201/01157 . . Sarcosine/dimethylglycine N-methyltransferase (2.1.1.157)
- 201/01158 . . 7-Methylxanthosine synthase (2.1.1.158)
- 201/01159 . . Theobromine synthase (2.1.1.159)
- 201/0116 . . Caffeine synthase (2.1.1.160)
- 201/01161 . . Dimethylglycine N-methyltransferase (2.1.1.161)
- 201/01162 . . Glycine/sarcosine/dimethylglycine N-methyltransferase (2.1.1.162)
- 201/01163 . . Demethylmenaquinone methyltransferase (2.1.1.163)
- 201/01164 . . Demethylrebeccamycin-D-glucose O-methyltransferase (2.1.1.164)
- 201/01165 . . Methyl halide transferase (2.1.1.165)
- 201/01166 . . 23S rRNA (uridine2552-2'-O-)-methyltransferase (2.1.1.166)
- 201/01167 . . 27S pre-rRNA (guanosine2922-2'-O-)-methyltransferase (2.1.1.167)
- 201/01168 . . 21S rRNA (uridine2791-2'-O-)-methyltransferase (2.1.1.168)
- 201/01169 . . Tricetin 3',4',5'-O-trimethyltransferase (2.1.1.169)
- 201/0117 . . 16S rRNA (guanine527-N7)-methyltransferase (2.1.1.170)
- 201/01171 . . 16S rRNA (guanine966-N2)-methyltransferase (2.1.1.171)

- 201/01172 . . 16S rRNA (guanine1207-N2)-methyltransferase (2.1.1.172)
- 201/01173 . . 23S rRNA (guanine2445-N2)-methyltransferase (2.1.1.173)
- 201/01174 . . 23S rRNA (guanine1835-N2)-methyltransferase (2.1.1.174)
- 201/01175 . . Tricin synthase (2.1.1.175)
- 201/01176 . . 16S rRNA (cytosine967-C5)-methyltransferase (2.1.1.176)
- 201/01177 . . 23S rRNA (pseudouridine1915-N3)-methyltransferase (2.1.1.177)
- 201/01178 . . 16S rRNA (cytosine1407-C5)-methyltransferase (2.1.1.178)
- 201/01179 . . 16S rRNA (guanine1405-N7)-methyltransferase (2.1.1.179)
- 201/0118 . . 16S rRNA (adenine1408-N1)-methyltransferase (2.1.1.180)
- 201/01181 . . 23S rRNA (adenine1618-N6)-methyltransferase (2.1.1.181)
- 201/01182 . . 16S rRNA (adenine1518-N6/adenine1519-N6)-dimethyltransferase (2.1.1.182)
- 201/01183 . . 18S rRNA (adenine1779-N6/adenine1780-N6)-dimethyltransferase (2.1.1.183)
- 201/01184 . . 23S rRNA (adenine2085-N6)-dimethyltransferase (2.1.1.184)
- 201/01185 . . 23S rRNA (guanine2251-2'-O)-methyltransferase (2.1.1.185)
- 201/01186 . . 23S rRNA (cytidine2498-2'-O)-methyltransferase (2.1.1.186)
- 201/01187 . . 23S rRNA (guanine745-N1)-methyltransferase (2.1.1.187)
- 201/01188 . . 23S rRNA (guanine748-N1)-methyltransferase (2.1.1.188)
- 201/01189 . . 23S rRNA (uracil747-C5)-methyltransferase (2.1.1.189)
- 201/0119 . . 23S rRNA (uracil1939-C5)-methyltransferase (2.1.1.190)
- 201/01191 . . 23S rRNA (cytosine1962-C5)-methyltransferase (2.1.1.191)
- 201/01192 . . 23S rRNA (adenine2503-C2)-methyltransferase (2.1.1.192)
- 201/01193 . . 16S rRNA (uracil1498-N3)-methyltransferase (2.1.1.193)
- 201/01194 . . 23S rRNA (adenine2503-C2,C8)-dimethyltransferase (2.1.1.194)  
[\(C12Y 201/01192, C12Y 201/01224 take precedence\)](#)
- 201/01195 . . Cobalt-precorrin-5B (C1)-methyltransferase (2.1.1.195)
- 201/01196 . . Cobalt-precorrin-7 (C15)-methyltransferase (decarboxylating) (2.1.1.196)
- 201/01197 . . Malonyl-CoA O-methyltransferase (2.1.1.197)
- 201/01198 . . 16S rRNA (cytidine1402-2'-O)-methyltransferase (2.1.1.198)
- 201/01199 . . 16S rRNA (cytosine1402-N4)-methyltransferase (2.1.1.199)
- 201/012 . . tRNA (cytidine32/uridine32-2'-O)-methyltransferase (2.1.1.200)
- 201/01201 . . 2-Methoxy-6-polyprenyl-1,4-benzoquinol methylase (2.1.1.201)
- 201/01202 . . Multisite-specific tRNA:(cytosine-C5)-methyltransferase (2.1.1.202)
- 201/01203 . . tRNA (cytosine34-C5)-methyltransferase (2.1.1.203)
- 201/01204 . . tRNA (cytosine38-C5)-methyltransferase (2.1.1.204)
- 201/01205 . . tRNA (cytidine32/guanosine34-2'-O)-methyltransferase (2.1.1.205)
- 201/01206 . . tRNA (cytidine56-2'-O)-methyltransferase (2.1.1.206)
- 201/01207 . . tRNA (cytidine34-2'-O)-methyltransferase (2.1.1.207)
- 201/01208 . . 23S rRNA (uridine2479-2'-O)-methyltransferase (2.1.1.208)
- 201/01209 . . 23S rRNA (guanine2535-N1)-methyltransferase (2.1.1.209)
- 201/0121 . . Demethylspheroidene O-methyltransferase (2.1.1.210)
- 201/01211 . . tRNA(Ser) (uridine44-2'-O)-methyltransferase (2.1.1.211)
- 201/01212 . . 2,7,4'-Trihydroxyisoflavanone 4'-O-methyltransferase (2.1.1.212)
- 201/01213 . . tRNA (guanine10-N2)-dimethyltransferase (2.1.1.213)
- 201/01214 . . tRNA (guanine10-N2)-methyltransferase (2.1.1.214)
- 201/01215 . . tRNA (guanine26-N2/guanine27-N2)-dimethyltransferase (2.1.1.215)
- 201/01216 . . tRNA (guanine26-N2)-dimethyltransferase (2.1.1.216)
- 201/01217 . . tRNA (adenine22-N1)-methyltransferase (2.1.1.217)
- 201/01218 . . tRNA (adenine9-N1)-methyltransferase (2.1.1.218)
- 201/01219 . . tRNA (adenine57-N1/adenine58-N1)-methyltransferase (2.1.1.219)
- 201/0122 . . tRNA (adenine58-N1)-methyltransferase (2.1.1.220)
- 201/01221 . . tRNA (guanine9-N1)-methyltransferase (2.1.1.221)
- 201/01222 . . 2-Polyprenyl-6-hydroxyphenyl methylase (2.1.1.222)
- 201/01223 . . tRNA1(Val) (adenine37-N6)-methyltransferase (2.1.1.223)
- 201/01224 . . 23S rRNA (adenine2503-C8)-methyltransferase (2.1.1.224)
- 201/01225 . . tRNA:m4X modification enzyme (2.1.1.225)
- 201/01226 . . 23S rRNA (cytidine1920-2'-O)-methyltransferase (2.1.1.226)
- 201/01227 . . 16S rRNA (cytidine1409-2'-O)-methyltransferase (2.1.1.227)
- 201/01228 . . tRNA (guanine37-N1)-methyltransferase (2.1.1.228)
- 201/01229 . . tRNA (carboxymethyluridine34-5-O)-methyltransferase (2.1.1.229)
- 201/0123 . . 23S rRNA (adenosine1067-2'-O)-methyltransferase (2.1.1.230)
- 201/01231 . . Flavonoid 4'-O-methyltransferase (2.1.1.231)
- 201/01232 . . Naringenin 7-O-methyltransferase (2.1.1.232)
- 201/01233 . . [Phosphatase 2A protein]-leucine-carboxy methyltransferase (2.1.1.233)
- 201/01234 . . dTDP-3-amino-3,4,6-trideoxy-alpha-D-glucopyranose N,N-dimethyltransferase (2.1.1.234)
- 201/01235 . . dTDP-3-amino-3,6-dideoxy-alpha-D-glucopyranose N,N-dimethyltransferase (2.1.1.235)

- 201/01236 . . dTDP-3-amino-3,6-dideoxy-alpha-D-galactopyranose N,N-dimethyltransferase (2.1.1.236)
- 201/01237 . . Mycinamicin III 3"-O-methyltransferase (2.1.1.237)
- 201/01238 . . Mycinamicin VI 2"-O-methyltransferase (2.1.1.238)
- 201/01239 . . L-Olivosyl-oleandolide 3-O-methyltransferase (2.1.1.239)
- 201/0124 . . Trans-resveratrol di-O-methyltransferase (2.1.1.240)
- 201/01241 . . 2,4,7-Trihydroxy-1,4-benzoxazin-3-one-glucoside 7-O-methyltransferase (2.1.1.241)
- 201/01242 . . 16S rRNA (guanine1516-N2)-methyltransferase (2.1.1.242)
- 201/01243 . . 2-Ketoarginine methyltransferase (2.1.1.243)
- 201/01244 . . Protein N-terminal methyltransferase (2.1.1.244)
- 201/01245 . . 5-Methyltetrahydro sarcinapterin:corrinoide/iron-sulfur protein Co-methyltransferase (2.1.1.245)
- 201/01246 . . [Methyl-Co(III) methanol-specific corrinoide protein]:coenzyme M methyltransferase (2.1.1.246)
- 201/01247 . . [Methyl-Co(III) methylamine-specific corrinoide protein]:coenzyme M methyltransferase (2.1.1.247)
- 201/01248 . . Methylamine—corrinoide protein Co-methyltransferase (2.1.1.248)
- 201/01249 . . Dimethylamine—corrinoide protein Co-methyltransferase (2.1.1.249)
- 201/0125 . . Trimethylamine—corrinoide protein Co-methyltransferase (2.1.1.250)
- 201/01251 . . Methylated-thiol—coenzyme M methyltransferase (2.1.1.251)
- 201/01252 . . Tetramethylammonium—corrinoide protein Co-methyltransferase (2.1.1.252)
- 201/01253 . . [Methyl-Co(III) tetramethylammonium-specific corrinoide protein]:coenzyme M methyltransferase (2.1.1.253)
- 201/01254 . . Erythromycin 3"-O-methyltransferase (2.1.1.254)
- 201/01255 . . Geranyl diphosphate 2-C-methyltransferase (2.1.1.255)
- 201/01256 . . tRNA (guanine6-N2)-methyltransferase (2.1.1.256)
- 201/01257 . . tRNA (pseudouridine54-N1)-methyltransferase (2.1.1.257)
- 201/01258 . . 5-Methyltetrahydrofolate:corrinoide/iron-sulfur protein Co-methyltransferase (2.1.1.258)
- 201/01259 . . [Fructose-bisphosphate aldolase]-lysine N-methyltransferase (2.1.1.259)
- 201/0126 . . rRNA small subunit pseudouridine methyltransferase Nep1 (2.1.1.260)
- 201/01261 . . 4-Dimethylallyltryptophan N-methyltransferase (2.1.1.261)
- 201/01262 . . Squalene methyltransferase (2.1.1.262)
- 201/01263 . . Botryococcene C-methyltransferase (2.1.1.263)
- 201/01264 . . 23S rRNA (guanine2069-N7)-methyltransferase (2.1.1.264)
- 201/01265 . . Tellurite methyltransferase (2.1.1.265)
- 201/02 . . Hydroxymethyl-, formyl- and related transferases (2.1.2)
- 201/02001 . . Glycine hydroxymethyltransferase (2.1.2.1)
- 201/02002 . . Phosphoribosylglycinamide formyltransferase (2.1.2.2)
- 201/02003 . . Phosphoribosylaminoimidazolecarboxamide formyltransferase (2.1.2.3), i.e. AICAR formyltransferase
- 201/02004 . . Glycine formimidoyltransferase (2.1.2.4)
- 201/02005 . . Glutamate formimidoyltransferase (2.1.2.5)
- 201/02007 . . D-Alanine 2-hydroxymethyltransferase (2.1.2.7)
- 201/02008 . . Deoxycytidylate 5-hydroxymethyltransferase (2.1.2.8)
- 201/02009 . . Methionyl-tRNA formyltransferase (2.1.2.9)
- 201/0201 . . Aminomethyltransferase (2.1.2.10)
- 201/02011 . . 3-Methyl-2-oxobutanoate hydroxymethyltransferase (2.1.2.11), i.e. ketopantoate hydroxymethyltransferase
- 201/02013 . . UDP-4-amino-4-deoxy-L-arabinose formyltransferase (2.1.2.13)
- 201/03 . . Carboxy- and carbamoyltransferases (2.1.3)
- 201/03001 . . Methylmalonyl-CoA carboxytransferase (2.1.3.1)
- 201/03002 . . Aspartate carbamoyltransferase (2.1.3.2)
- 201/03003 . . Ornithine carbamoyltransferase (2.1.3.3)
- 201/03005 . . Oxamate carbamoyltransferase (2.1.3.5)
- 201/03006 . . Putrescine carbamoyltransferase (2.1.3.6)
- 201/03007 . . 3-Hydroxymethylcephem carbamoyltransferase (2.1.3.7)
- 201/03008 . . Lysine carbamoyltransferase (2.1.3.8)
- 201/03009 . . N-Acetylornithine carbamoyltransferase (2.1.3.9)
- 201/0301 . . Malonyl-S-ACP:biotin-protein carboxyltransferase (2.1.3.10)
- 201/03011 . . N-Succinylornithine carbamoyltransferase (2.1.3.11)
- 201/04 . . Amidinotransferases (2.1.4)
- 201/04001 . . Glycine amidinotransferase (2.1.4.1)
- 201/04002 . . Scyllo-inosamine-4-phosphate amidinotransferase (2.1.4.2)
- 202/00    Transferases transferring aldehyde or ketonic groups (2.2)**
- 202/01 . . Transketolases and transaldolases (2.2.1)
- 202/01001 . . Transketolase (2.2.1.1)
- 202/01002 . . Transaldolase (2.2.1.2)
- 202/01003 . . Formaldehyde transketolase (2.2.1.3)
- 202/01004 . . Acetoin--ribose-5-phosphate transaldolase (2.2.1.4)
- 202/01005 . . 2-Hydroxy-3-oxoadipate synthase (2.2.1.5)
- 202/01006 . . Acetolactate synthase (2.2.1.6)
- 202/01007 . . 1-Deoxy-D-xylulose-5-phosphate synthase (2.2.1.7)
- 202/01008 . . Fluorothreonine transaldolase (2.2.1.8)
- 202/01009 . . 2-Succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid synthase (2.2.1.9)
- 202/0101 . . 2-Amino-3,7-dideoxy-D-threo-hept-6-ulosonate synthase (2.2.1.10)
- 202/01011 . . 6-Deoxy-5-ketofructose 1-phosphate synthase (2.2.1.11)
- 203/00    Acyltransferases (2.3)**
- 203/01 . . transferring groups other than amino-acyl groups (2.3.1)
- 203/01001 . . Amino-acid N-acetyltransferase (2.3.1.1)
- 203/01002 . . Imidazole N-acetyltransferase (2.3.1.2)
- 203/01003 . . Glucosamine N-acetyltransferase (2.3.1.3)
- 203/01004 . . Glucosamine-phosphate N-acetyltransferase (2.3.1.4)
- 203/01005 . . Arylamine N-acetyltransferase (2.3.1.5)
- 203/01006 . . Choline O-acetyltransferase (2.3.1.6)

- 203/01007 . . Carnitine O-acetyltransferase (2.3.1.7)
- 203/01008 . . Phosphate acetyltransferase (2.3.1.8)
- 203/01009 . . Acetyl-CoA C-acetyltransferase (2.3.1.9)
- 203/0101 . . Hydrogen-sulfide S-acetyltransferase (2.3.1.10)
- 203/01011 . . Thioethanolamine S-acetyltransferase (2.3.1.11)
- 203/01012 . . Dihydrolipoyllysine-residue acetyltransferase (2.3.1.12)
- 203/01013 . . Glycine N-acyltransferase (2.3.1.13)
- 203/01014 . . Glutamine N-phenylacetyltransferase (2.3.1.14)
- 203/01015 . . Glycerol-3-phosphate O-acyltransferase (2.3.1.15)
- 203/01016 . . Acetyl-CoA C-acyltransferase (2.3.1.16)
- 203/01017 . . Aspartate N-acetyltransferase (2.3.1.17)
- 203/01018 . . Galactoside O-acetyltransferase (2.3.1.18)
- 203/01019 . . Phosphate butyryltransferase (2.3.1.19)
- 203/0102 . . Diacylglycerol O-acyltransferase (2.3.1.20)
- 203/01021 . . Carnitine O-palmitoyltransferase (2.3.1.21)
- 203/01022 . . 2-Acylglycerol O-acyltransferase (2.3.1.22)
- 203/01023 . . 1-Acylglycerophosphocholine O-acyltransferase (2.3.1.23), i.e. lysophosphatidylcholine acyltransferase or LPCAT
- 203/01024 . . Sphingosine N-acyltransferase (2.3.1.24)
- 203/01025 . . Plasmalogen synthase (2.3.1.25)
- 203/01026 . . Sterol O-acyltransferase (2.3.1.26)
- 203/01027 . . Cortisol O-acetyltransferase (2.3.1.27)
- 203/01028 . . Chloramphenicol O-acetyltransferase (2.3.1.28)
- 203/01029 . . Glycine C-acetyltransferase (2.3.1.29)
- 203/0103 . . Serine O-acetyltransferase (2.3.1.30)
- 203/01031 . . Homoserine O-acetyltransferase (2.3.1.31)
- 203/01032 . . Lysine N-acetyltransferase (2.3.1.32)
- 203/01033 . . Histidine N-acetyltransferase (2.3.1.33)
- 203/01034 . . D-Tryptophan N-acetyltransferase (2.3.1.34)
- 203/01035 . . Glutamate N-acetyltransferase (2.3.1.35)
- 203/01036 . . D-Amino-acid N-acetyltransferase (2.3.1.36)
- 203/01037 . . 5-Aminolevulinate synthase (2.3.1.37)
- 203/01038 . . [Acyl-carrier-protein] S-acetyltransferase (2.3.1.38)
- 203/01039 . . [Acyl-carrier-protein] S-malonyltransferase (2.3.1.39)
- 203/0104 . . Acyl-[acyl-carrier-protein]-phospholipid O-acyltransferase (2.3.1.40)
- 203/01041 . . Beta-ketoacyl-acyl-carrier-protein synthase I (2.3.1.41)
- 203/01042 . . Glycerone-phosphate O-acyltransferase (2.3.1.42)
- 203/01043 . . Phosphatidylcholine-sterol O-acyltransferase (2.3.1.43), i.e. lecithin-cholesterol acyltransferase or LCAT
- 203/01044 . . Acetyl-CoA:N-acetylneuraminate 4-O-acetyltransferase (2.3.1.44)
- 203/01045 . . N-Acetylneuraminate 7-O (or 9-O)-acetyltransferase (2.3.1.45)
- 203/01046 . . Homoserine O-succinyltransferase (2.3.1.46)
- 203/01047 . . 8-Amino-7-oxononanoate synthase (2.3.1.47)
- 203/01048 . . Histone acetyltransferase (2.3.1.48)
- 203/01049 . . Deacetyl-[citrate-(pro-3S)-lyase] S-acetyltransferase (2.3.1.49)
- 203/0105 . . Serine C-palmitoyltransferase (2.3.1.50)
- 203/01051 . . 1-Acylglycerol-3-phosphate O-acyltransferase (2.3.1.51)
- 203/01052 . . 2-Acylglycerol-3-phosphate O-acyltransferase (2.3.1.52)
- 203/01053 . . Phenylalanine N-acetyltransferase (2.3.1.53)
- 203/01054 . . Formate C-acetyltransferase (2.3.1.54), i.e. pyruvate formate-lyase or PFL
- 203/01056 . . Aromatic-hydroxylamine O-acetyltransferase (2.3.1.56)
- 203/01057 . . Diamine N-acetyltransferase (2.3.1.57)
- 203/01058 . . 2,3-Diaminopropionate N-oxalyltransferase (2.3.1.58)
- 203/01059 . . Gentamicin 2'-N-acetyltransferase (2.3.1.59)
- 203/0106 . . Gentamicin 3'-N-acetyltransferase (2.3.1.60)
- 203/01061 . . Dihydrolipoyllysine-residue succinyltransferase (2.3.1.61)
- 203/01062 . . 2-Acylglycerophosphocholine O-acyltransferase (2.3.1.62)
- 203/01063 . . 1-Alkylglycerophosphocholine O-acyltransferase (2.3.1.63)
- 203/01064 . . Agmatine N4-coumaroyltransferase (2.3.1.64)
- 203/01065 . . Bile acid-CoA:amino acid N-acyltransferase (2.3.1.65)
- 203/01066 . . Leucine N-acetyltransferase (2.3.1.66)
- 203/01067 . . 1-Alkylglycerophosphocholine O-acetyltransferase (2.3.1.67)
- 203/01068 . . Glutamine N-acyltransferase (2.3.1.68)
- 203/01069 . . Monoterpenol O-acetyltransferase (2.3.1.69)
- 203/01071 . . Glycine N-benzoyltransferase (2.3.1.71)
- 203/01072 . . Indoleacetylglucose--inositol O-acyltransferase (2.3.1.72)
- 203/01073 . . Diacylglycerol-sterol O-acyltransferase (2.3.1.73)
- 203/01074 . . Naringenin-chalcone synthase (2.3.1.74), i.e. chalcone synthase
- 203/01075 . . Long-chain-alcohol O-fatty-acyltransferase (2.3.1.75)
- 203/01076 . . Retinol O-fatty-acyltransferase (2.3.1.76)
- 203/01077 . . Triacylglycerol--sterol O-acyltransferase (2.3.1.77)
- 203/01078 . . Heparan-alpha-glucosaminide N-acetyltransferase (2.3.1.78)
- 203/01079 . . Maltose O-acetyltransferase (2.3.1.79)
- 203/0108 . . Cysteine-S-conjugate N-acetyltransferase (2.3.1.80)
- 203/01081 . . Aminoglycoside N3'-acetyltransferase (2.3.1.81)
- 203/01082 . . Aminoglycoside N6'-acetyltransferase (2.3.1.82)
- 203/01083 . . Phosphatidylcholine--dolichol O-acyltransferase (2.3.1.83)
- 203/01084 . . Alcohol O-acetyltransferase (2.3.1.84)
- 203/01085 . . Fatty-acid synthase (2.3.1.85)
- 203/01086 . . Fatty-acyl-CoA synthase (2.3.1.86)
- 203/01087 . . Aralkylamine N-acetyltransferase (2.3.1.87)
- 203/01088 . . Peptide alpha-N-acetyltransferase (2.3.1.88)
- 203/01089 . . Tetrahydrodipicolinate N-acetyltransferase (2.3.1.89)
- 203/0109 . . Beta-glucogallin O-galloyltransferase (2.3.1.90)
- 203/01091 . . Sinapoylglucose--choline O-sinapoyltransferase (2.3.1.91)
- 203/01092 . . Sinapoylglucose--malate O-sinapoyltransferase (2.3.1.92)
- 203/01093 . . 13-Hydroxylupanine O-tigloyltransferase (2.3.1.93)
- 203/01094 . . 6-Deoxyerythronolide-B synthase (2.3.1.94)
- 203/01095 . . Trihydroxystilbene synthase (2.3.1.95)
- 203/01096 . . Glycoprotein N-palmitoyltransferase (2.3.1.96)
- 203/01097 . . Glycylpeptide N-tetradecanoyltransferase (2.3.1.97)

- 203/01098 . . Chlorogenate--glucarate O-hydroxycinnamoyltransferase (2.3.1.98)
- 203/01099 . . Quinate O-hydroxycinnamoyltransferase (2.3.1.99)
- 203/011 . . [Myelin-proteolipid] O-palmitoyltransferase (2.3.1.100)
- 203/01101 . . Formylmethanofuran--tetrahydromethanopterin N-formyltransferase (2.3.1.101)
- 203/01102 . . N6-Hydroxylysine O-acetyltransferase (2.3.1.102)
- 203/01103 . . Sinapoylglucose--sinapoylglucose O-sinapoyltransferase (2.3.1.103)
- 203/01104 . . 1-Alkenylglycerophosphocholine O-acyltransferase (2.3.1.104)
- 203/01105 . . Alkylglycerophosphate 2-O-acetyltransferase (2.3.1.105)
- 203/01106 . . Tartronate O-hydroxycinnamoyltransferase (2.3.1.106)
- 203/01107 . . Deacetylindoline O-acetyltransferase (2.3.1.107)
- 203/01108 . . Alpha-tubulin N-acetyltransferase (2.3.1.108)
- 203/01109 . . Arginine N-succinyltransferase (2.3.1.109)
- 203/0111 . . Tyramine N-feruloyltransferase (2.3.1.110)
- 203/01111 . . Mycocerosate synthase (2.3.1.111)
- 203/01112 . . D-Tryptophan N-malonyltransferase (2.3.1.112)
- 203/01113 . . Anthranilate N-malonyltransferase (2.3.1.113)
- 203/01114 . . 3,4-Dichloroaniline N-malonyltransferase (2.3.1.114)
- 203/01115 . . Isoflavone-7-O-beta-glucoside 6"-O-malonyltransferase (2.3.1.115)
- 203/01116 . . Flavonol-3-O-beta-glucoside O-malonyltransferase (2.3.1.116)
- 203/01117 . . 2,3,4,5-Tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (2.3.1.117)
- 203/01118 . . N-Hydroxyarylamine O-acetyltransferase (2.3.1.118)
- 203/01119 . . Icosanoyl-CoA synthase (2.3.1.119)
- 203/01121 . . 1-Alkenylglycerophosphoethanolamine O-acyltransferase (2.3.1.121)
- 203/01122 . . Trehalose O-mycosyltransferase (2.3.1.122)
- 203/01123 . . Dolichol O-acyltransferase (2.3.1.123)
- 203/01125 . . 1-Alkyl-2-acetylgllycerol O-acyltransferase (2.3.1.125)
- 203/01126 . . Isocitrate O-dihydroxycinnamoyltransferase (2.3.1.126)
- 203/01127 . . Ornithine N-benzoyltransferase (2.3.1.127)
- 203/01128 . . Ribosomal-protein-alanine N-acetyltransferase (2.3.1.128)
- 203/01129 . . Acyl-[acyl-carrier-protein]-UDP-N-acetylglucosamine O-acyltransferase (2.3.1.129)
- 203/0113 . . Galactarate O-hydroxycinnamoyltransferase (2.3.1.130)
- 203/01131 . . Glucarate O-hydroxycinnamoyltransferase (2.3.1.131)
- 203/01132 . . Glucarolactone O-hydroxycinnamoyltransferase (2.3.1.132)
- 203/01133 . . Shikimate O-hydroxycinnamoyltransferase (2.3.1.133)
- 203/01134 . . Galactolipid O-acyltransferase (2.3.1.134)
- 203/01135 . . Phosphatidylcholine--retinol O-acyltransferase (2.3.1.135)
- 203/01136 . . Polysialic-acid O-acetyltransferase (2.3.1.136)
- 203/01137 . . Carnitine O-octanoyltransferase (2.3.1.137)
- 203/01138 . . Putrescine N-hydroxycinnamoyltransferase (2.3.1.138)
- 203/01139 . . Ecdysone O-acyltransferase (2.3.1.139)
- 203/0114 . . Rosmarinate synthase (2.3.1.140)
- 203/01141 . . Galactosylacylglycerol O-acyltransferase (2.3.1.141)
- 203/01142 . . Glycoprotein O-fatty-acyltransferase (2.3.1.142)
- 203/01143 . . Beta-glucogallin--tetrakisgalloylglucose O-galloyltransferase (2.3.1.143)
- 203/01144 . . Anthranilate N-benzoyltransferase (2.3.1.144)
- 203/01145 . . Piperidine N-piperoyltransferase (2.3.1.145)
- 203/01146 . . Pinosylvin synthase (2.3.1.146)
- 203/01147 . . Glycerophospholipid arachidonoyl-transferase (CoA-independent) (2.3.1.147)
- 203/01148 . . Glycerophospholipid acyltransferase (CoA-dependent) (2.3.1.148)
- 203/01149 . . Platelet-activating factor acetyltransferase (2.3.1.149)
- 203/0115 . . Salutaridinol 7-O-acetyltransferase (2.3.1.150)
- 203/01151 . . Benzophenone synthase (2.3.1.151)
- 203/01152 . . Alcohol O-cinnamoyltransferase (2.3.1.152)
- 203/01153 . . Anthocyanin 5-aromatic acyltransferase (2.3.1.153)
- 203/01154 . . Propionyl-CoA C(2)-trimethyltridecanoyltransferase (2.3.1.154)
- 203/01155 . . Acetyl-CoA C-myristoyltransferase (2.3.1.155)
- 203/01156 . . Phloroisovalerophenone synthase (2.3.1.156)
- 203/01157 . . Glucosamine-1-phosphate N-acetyltransferase (2.3.1.157)
- 203/01158 . . Phospholipid:diacylglycerol acyltransferase (2.3.1.158)
- 203/01159 . . Acridone synthase (2.3.1.159)
- 203/0116 . . Vinorine synthase (2.3.1.160)
- 203/01161 . . Lovastatin nonaketide synthase (2.3.1.161)
- 203/01162 . . Taxadien-5-alpha-ol O-acetyltransferase (2.3.1.162)
- 203/01163 . . 10-Hydroxytaxane O-acetyltransferase (2.3.1.163)
- 203/01164 . . Isopenicillin-N N-acyltransferase (2.3.1.164)
- 203/01165 . . 6-Methylsalicylic acid synthase (2.3.1.165)
- 203/01166 . . 2-Alpha-hydroxytaxane 2-O-benzoyltransferase (2.3.1.166)
- 203/01167 . . 10-Deacetylbaicatin III 10-O-acetyltransferase (2.3.1.167)
- 203/01168 . . Dihydrolipoyllysine-residue (2-methylpropanoyl)transferase (2.3.1.168)
- 203/01169 . . CO-Methylating acetyl-CoA synthase (2.3.1.169)
- 203/0117 . . 6'-Deoxychalcone synthase (2.3.1.170)
- 203/01171 . . Anthocyanin 6"-O-malonyltransferase (2.3.1.171)
- 203/01172 . . Anthocyanin 5-O-glucoside 6"-O-malonyltransferase (2.3.1.172)
- 203/01173 . . Flavonol-3-O-triglucoside O-coumaroyltransferase (2.3.1.173)
- 203/01174 . . 3-Oxoadipyl-CoA thiolase (2.3.1.174)
- 203/01175 . . Deacetylcephalosporin-C acetyltransferase (2.3.1.175)
- 203/01176 . . Propanoyl-CoA C-acyltransferase (2.3.1.176)
- 203/01177 . . 3,5-Dihydroxybiphenyl synthase (2.3.1.177)
- 203/01178 . . Diaminobutyrate acetyltransferase (2.3.1.178)
- 203/01179 . . Beta-ketoacyl-acyl-carrier-protein synthase II (2.3.1.179)
- 203/0118 . . Beta-ketoacyl-acyl-carrier-protein synthase III (2.3.1.180)



- 203/01181 . . Lipoyl(octanoyl) transferase (2.3.1.181)  
 203/01182 . . (R)-Citramalate synthase (2.3.1.182)  
 203/01183 . . Phosphinothricin acetyltransferase (2.3.1.183)  
 203/01184 . . Acyl-homoserine-lactone synthase (2.3.1.184)  
 203/01185 . . Tropine acyltransferase (2.3.1.185)  
 203/01186 . . Pseudotropine acyltransferase (2.3.1.186)  
 203/01187 . . Acetyl-S-ACP:malonate ACP transferase (2.3.1.187)  
 203/01188 . . Omega-hydroxypalmitate O-feruloyl transferase (2.3.1.188)  
 203/01189 . . Mycothiol synthase (2.3.1.189)  
 203/0119 . . Acetoin dehydrogenase (2.3.1.190)  
 203/01191 . . UDP-3-O-(3-hydroxymyristoyl)glucosamine N-acyltransferase (2.3.1.191)  
 203/01192 . . Glycine N-phenylacetyltransferase (2.3.1.192)  
 203/01193 . . tRNA(Met) cytidine acetyltransferase (2.3.1.193)  
 203/01194 . . Acetoacetyl-CoA synthase (2.3.1.194)  
 203/01195 . . (Z)-3-Hexen-1-ol acetyltransferase (2.3.1.195)  
 203/01196 . . Benzyl alcohol O-benzoyltransferase (2.3.1.196)  
 203/01197 . . dTDP-3-amino-3,6-dideoxy-alpha-D-galactopyranose 3-N-acetyltransferase (2.3.1.197)  
 203/01198 . . Glycerol-3-phosphate 2-O-acyltransferase (2.3.1.198)  
 203/01199 . . Very-long-chain 3-oxoacyl-CoA synthase (2.3.1.199)  
 203/012 . . Lipoyl amidotransferase (2.3.1.200)  
 203/01201 . . UDP-2-acetamido-3-amino-2,3-dideoxy-glucuronate N-acetyltransferase (2.3.1.201)  
 203/01202 . . UDP-4-amino-4,6-dideoxy-N-acetyl-beta-L-altrosamine N-acetyltransferase (2.3.1.202)  
 203/01203 . . UDP-4-amino-4,6-dideoxy-N-acetyl-alpha-D-glucosamine N-acetyltransferase (2.3.1.203)  
 203/01204 . . Octanoyl-[GcvH]:protein N-octanoyltransferase (2.3.1.204)  
 203/01205 . . Fumigaclavine B O-acetyltransferase (2.3.1.205)  
 203/01206 . . 3,5,7-Trioxododecanoyl-CoA synthase (2.3.1.206)  
 203/01207 . . Beta-ketodecanoyl-[acyl-carrier-protein] synthase (2.3.1.207)  
 203/01208 . . 4-Hydroxycoumarin synthase (2.3.1.208)  
 203/01209 . . dTDP-4-amino-4,6-dideoxy-D-glucose acyltransferase (2.3.1.209)  
 203/0121 . . dTDP-4-amino-4,6-dideoxy-D-galactose acyltransferase (2.3.1.210)  
 203/02 . . Aminoacyltransferases (2.3.2)  
 203/02001 . . D-Glutamyltransferase (2.3.2.1)  
 203/02002 . . Gamma-glutamyltransferase (2.3.2.2)  
 203/02003 . . Lysyltransferase (2.3.2.3)  
 203/02004 . . Gamma-glutamylcyclotransferase (2.3.2.4)  
 203/02005 . . Glutaminyl-peptide cyclotransferase (2.3.2.5)  
 203/02006 . . Leucyltransferase (2.3.2.6)  
 203/02007 . . Aspartyltransferase (2.3.2.7)  
 203/02008 . . Arginyltransferase (2.3.2.8)  
 203/02009 . . Agaritine gamma-glutamyltransferase (2.3.2.9)  
 203/0201 . . UDP-N-acetylmuramoylpentapeptide-lysine N6-alanyltransferase (2.3.2.10)  
 203/02011 . . Alanylphosphatidylglycerol synthase (2.3.2.11)  
 203/02012 . . Peptidyltransferase (2.3.2.12)  
 203/02013 . . Protein-glutamine gamma-glutamyltransferase (2.3.2.13), i.e. transglutaminase or factor XIII  
 203/02014 . . D-Alanine gamma-glutamyltransferase (2.3.2.14)  
 203/02015 . . Glutathione gamma-glutamylcysteinyltransferase (2.3.2.15), i.e. phytochelatin synthase  
 203/02016 . . Lipid II:glycine glycytransferase (2.3.2.16)  
 203/02017 . . N-Acetylmuramoyl-L-alanyl-D-glutamyl-L-lysyl-(N6-glycyl)-D-alanyl-D-alanine-diphosphoundecaprenyl-N-acetylglucosamine:glycin (2.3.2.17)  
 203/02018 . . N-Acetylmuramoyl-L-alanyl-D-glutamyl-L-lysyl-(N6-triglycine)-D-alanyl-D-alanine-diphosphoundecaprenyl-N-acetylglucosamine:glycin (2.3.2.18)  
 203/02019 . . Ribostamycin:4-(gamma-L-glutamylamino)-(S)-2-hydroxybutanoyl-[BtrI acyl-carrier protein] 4-(gamma-L-glutamylamino)-(S)-2-hydroxybutanoate transferase (2.3.2.19)  
 203/03 . . Acyl groups converted into alkyl on transfer (2.3.3)  
 203/03001 . . Citrate (Si)-synthase (2.3.3.1)  
 203/03002 . . Decylcitrate synthase (2.3.3.2)  
 203/03003 . . Citrate (Re)-synthase (2.3.3.3)  
 203/03004 . . Decylhomocitrate synthase (2.3.3.4)  
 203/03005 . . 2-Methylcitrate synthase (2.3.3.5)  
 203/03006 . . 2-Ethylmalate synthase (2.3.3.6)  
 203/03007 . . 3-Ethylmalate synthase (2.3.3.7)  
 203/03008 . . ATP citrate synthase (2.3.3.8)  
 203/03009 . . Malate synthase (2.3.3.9)  
 203/0301 . . Hydroxymethylglutaryl-CoA synthase (2.3.3.10)  
 203/03011 . . 2-Hydroxyglutarate synthase (2.3.3.11)  
 203/03012 . . 3-Propylmalate synthase (2.3.3.12)  
 203/03013 . . 2-Isopropylmalate synthase (2.3.3.13)  
 203/03014 . . Homocitrate synthase (2.3.3.14)  
 203/03015 . . Sulfoacetaldehyde acetyltransferase (2.3.3.15)  
**204/00 Glycosyltransferases (2.4)**  
 204/01 . . Hexosyltransferases (2.4.1)  
 204/01001 . . Phosphorylase (2.4.1.1)  
 204/01002 . . Dextrin dextranase (2.4.1.2)  
 204/01004 . . Amylosucrase (2.4.1.4)  
 204/01005 . . Dextransucrase (2.4.1.5)  
 204/01007 . . Sucrose phosphorylase (2.4.1.7)  
 204/01008 . . Maltose phosphorylase (2.4.1.8)  
 204/01009 . . Inulosucrase (2.4.1.9)  
 204/0101 . . Levansucrase (2.4.1.10)  
 204/01011 . . Glycogen(starch) synthase (2.4.1.11)  
 204/01012 . . Cellulose synthase (UDP-forming) (2.4.1.12)  
 204/01013 . . Sucrose synthase (2.4.1.13)  
 204/01014 . . Sucrose-phosphate synthase (2.4.1.14)  
 204/01015 . . Alpha,alpha-trehalose-phosphate synthase (UDP-forming) (2.4.1.15)  
 204/01016 . . Chitin synthase (2.4.1.16)  
 204/01017 . . Glucuronosyltransferase (2.4.1.17)  
 204/01018 . . 1,4-Alpha-glucan branching enzyme (2.4.1.18), i.e. glucan branching enzyme  
 204/01019 . . Cyclomaltodextrin glucanotransferase (2.4.1.19)  
 204/0102 . . Cellobiose phosphorylase (2.4.1.20)  
 204/01021 . . Starch synthase (2.4.1.21)  
 204/01022 . . Lactose synthase (2.4.1.22)  
 204/01023 . . Sphingosine beta-galactosyltransferase (2.4.1.23)  
 204/01024 . . 1,4-Alpha-glucan 6-alpha-glucosyltransferase (2.4.1.24)  
 204/01025 . . 4-Alpha-glucanotransferase (2.4.1.25)  
 204/01026 . . DNA alpha-glucosyltransferase (2.4.1.26)  
 204/01027 . . DNA beta-glucosyltransferase (2.4.1.27)  
 204/01028 . . Glucosyl-DNA beta-glucosyltransferase (2.4.1.28)  
 204/01029 . . Cellulose synthase (GDP-forming) (2.4.1.29)

- 204/0103 . . 1,3-Beta-oligoglucan phosphorylase (2.4.1.30)
- 204/01031 . . Laminaribiose phosphorylase (2.4.1.31)
- 204/01032 . . Glucomannan 4-beta-mannosyltransferase (2.4.1.32)
- 204/01033 . . Alginate synthase (2.4.1.33)
- 204/01034 . . 1,3-Beta-glucan synthase (2.4.1.34)
- 204/01035 . . Phenol beta-glucosyltransferase (2.4.1.35)
- 204/01036 . . Alpha,alpha-trehalose-phosphate synthase (GDP-forming) (2.4.1.36)
- 204/01037 . . Fucosylgalactoside 3-alpha-galactosyltransferase (2.4.1.37)
- 204/01038 . . Beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase (2.4.1.38)
- 204/01039 . . Steroid N-acetylglucosaminyltransferase (2.4.1.39)
- 204/0104 . . Glycoprotein-fucosylgalactoside alpha-N-acetylglactosaminyltransferase (2.4.1.40)
- 204/01041 . . Polypeptide N-acetylglactosaminyltransferase (2.4.1.41)
- 204/01043 . . Polygalacturonate 4-alpha-galacturonosyltransferase (2.4.1.43)
- 204/01044 . . Lipopolysaccharide 3-alpha-galactosyltransferase (2.4.1.44)
- 204/01045 . . 2-Hydroxyacylsphingosine 1-beta-galactosyltransferase (2.4.1.45)
- 204/01046 . . Monogalactosyldiacylglycerol synthase (2.4.1.46)
- 204/01047 . . N-Acylsphingosine galactosyltransferase (2.4.1.47)
- 204/01048 . . Heteroglycan alpha-mannosyltransferase (2.4.1.48)
- 204/01049 . . Cellodextrin phosphorylase (2.4.1.49)
- 204/0105 . . Procollagen galactosyltransferase (2.4.1.50)
- 204/01051 . . UDP-N-acetylglucosamine-glycoprotein N-acetylglucosaminyltransferase (2.4.1.51) ([C12Y 204/01101](#), [C12Y 204/01143](#) - [C12Y 204/01145](#) take precedence)
- 204/01052 . . Poly(glycerol-phosphate) alpha-glucosyltransferase (2.4.1.52)
- 204/01053 . . Poly(ribitol-phosphate) beta-glucosyltransferase (2.4.1.53)
- 204/01054 . . Undecaprenyl-phosphate mannosyltransferase (2.4.1.54)
- 204/01056 . . Lipopolysaccharide N-acetylglucosaminyltransferase (2.4.1.56)
- 204/01057 . . Phosphatidylinositol alpha-mannosyltransferase (2.4.1.57)
- 204/01058 . . Lipopolysaccharide glucosyltransferase I (2.4.1.58)
- 204/0106 . . Abequosyltransferase (2.4.1.60)
- 204/01062 . . Ganglioside galactosyltransferase (2.4.1.62)
- 204/01063 . . Linamarin synthase (2.4.1.63)
- 204/01064 . . Alpha,alpha-trehalose phosphorylase (2.4.1.64)
- 204/01065 . . 3-Galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase (2.4.1.65), i.e. alpha-1-3 fucosyltransferase
- 204/01066 . . Procollagen glucosyltransferase (2.4.1.66)
- 204/01067 . . Galactinol--raffinose galactosyltransferase (2.4.1.67)
- 204/01068 . . Glycoprotein 6-alpha-L-fucosyltransferase (2.4.1.68), i.e. FUT8
- 204/01069 . . Galactoside 2-alpha-L-fucosyltransferase (2.4.1.69)
- 204/0107 . . Poly(ribitol-phosphate) N-acetylglucosaminyltransferase (2.4.1.70)
- 204/01071 . . Arylamine glucosyltransferase (2.4.1.71)
- 204/01073 . . Lipopolysaccharide glucosyltransferase II (2.4.1.73)
- 204/01074 . . Glycosaminoglycan galactosyltransferase (2.4.1.74)
- 204/01078 . . Phosphopolyprenol glucosyltransferase (2.4.1.78)
- 204/01079 . . Globotriaosylceramide 3-beta-N-acetylglactosaminyltransferase (2.4.1.79)
- 204/0108 . . Ceramide glucosyltransferase (2.4.1.80)
- 204/01081 . . Flavone 7-O-beta-glucosyltransferase (2.4.1.81)
- 204/01082 . . Galactinol--sucrose galactosyltransferase (2.4.1.82)
- 204/01083 . . Dolichyl-phosphate beta-D-mannosyltransferase (2.4.1.83)
- 204/01085 . . Cyanohydrin beta-glucosyltransferase (2.4.1.85)
- 204/01086 . . Glucosaminylgalactosylglucosylceramide beta-galactosyltransferase (2.4.1.86)
- 204/01087 . . N-Acetylglactosaminide 3-alpha-galactosyltransferase (2.4.1.87), i.e. alpha-1,3-galactosyltransferase
- 204/01088 . . Globoside alpha-N-acetylglactosaminyltransferase (2.4.1.88)
- 204/0109 . . N-Acetylglucosamine synthase (2.4.1.90)
- 204/01091 . . Flavonol 3-O-glucosyltransferase (2.4.1.91)
- 204/01092 . . (N-acetylneuraminy)-galactosylglucosylceramide N-acetylglactosaminyltransferase (2.4.1.92)
- 204/01094 . . Protein N-acetylglucosaminyltransferase (2.4.1.94)
- 204/01095 . . Bilirubin-glucuronoside glucuronosyltransferase (2.4.1.95)
- 204/01096 . . sn-Glycerol-3-phosphate 1-galactosyltransferase (2.4.1.96)
- 204/01097 . . 1,3-Beta-D-glucan phosphorylase (2.4.1.97)
- 204/01099 . . Sucrose:sucrose fructosyltransferase (2.4.1.99)
- 204/011 . . 2,1-Fructan:2,1-fructan 1-fructosyltransferase (2.4.1.100)
- 204/01101 . . Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase (2.4.1.101)
- 204/01102 . . Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase (2.4.1.102)
- 204/01103 . . Alizarin 2-beta-glucosyltransferase (2.4.1.103)
- 204/01104 . . o-Dihydroxycoumarin 7-O-glucosyltransferase (2.4.1.104)
- 204/01105 . . Vitexin beta-glucosyltransferase (2.4.1.105)
- 204/01106 . . Isovitexin beta-glucosyltransferase (2.4.1.106)
- 204/01109 . . Dolichyl-phosphate-mannose-protein mannosyltransferase (2.4.1.109)
- 204/0111 . . tRNA-queuosine beta-mannosyltransferase (2.4.1.110)
- 204/01111 . . Coniferyl-alcohol glucosyltransferase (2.4.1.111)
- 204/01113 . . Alpha-1,4-glucan-protein synthase (ADP-forming) (2.4.1.113)
- 204/01114 . . 2-Coumarate O-beta-glucosyltransferase (2.4.1.114)
- 204/01115 . . Anthocyanidin 3-O-glucosyltransferase (2.4.1.115)
- 204/01116 . . Cyanidin 3-O-rutinoside 5-O-glucosyltransferase (2.4.1.116)
- 204/01117 . . Dolichyl-phosphate beta-glucosyltransferase (2.4.1.117)

- 204/01118 . . Cytokinin 7-beta-glucosyltransferase (2.4.1.118)
- 204/01112 . . Sinapate 1-glucosyltransferase (2.4.1.120)
- 204/01121 . . Indole-3-acetate beta-glucosyltransferase (2.4.1.121)
- 204/01122 . . Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase (2.4.1.122)
- 204/01123 . . Inositol 3-alpha-galactosyltransferase (2.4.1.123), i.e. galactinol-synthase
- 204/01125 . . Sucrose--1,6-alpha-glucan 3(6)-alpha-glucosyltransferase (2.4.1.125)
- 204/01126 . . Hydroxycinnamate 4-beta-glucosyltransferase (2.4.1.126)
- 204/01127 . . Monoterpenol beta-glucosyltransferase (2.4.1.127)
- 204/01128 . . Scopoletin glucosyltransferase (2.4.1.128)
- 204/01129 . . Peptidoglycan glycosyltransferase (2.4.1.129)
- 204/01113 . . Dolichyl-phosphate-mannose-glycolipid alpha-mannosyltransferase (2.4.1.130)  
([C12Y 204/01258](#) - [C12Y 204/01261](#) take precedence)
- 204/01131 . . GDP-Man:Man3GlcNAc2-PP-dolichol alpha-1,2-mannosyltransferase (2.4.1.131)
- 204/01132 . . GDP-Man:Man1GlcNAc2-PP-dolichol alpha-1,3-mannosyltransferase (2.4.1.132)
- 204/01133 . . Xylosylprotein 4-beta-galactosyltransferase (2.4.1.133)
- 204/01134 . . Galactosylxylosylprotein 3-beta-galactosyltransferase (2.4.1.134)
- 204/01135 . . Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase (2.4.1.135)
- 204/01136 . . Gallate 1-beta-glucosyltransferase (2.4.1.136)
- 204/01137 . . sn-Glycerol-3-phosphate 2-alpha-galactosyltransferase (2.4.1.137)
- 204/01138 . . Mannotetraose 2-alpha-N-acetylglucosaminyltransferase (2.4.1.138)
- 204/01139 . . Maltose synthase (2.4.1.139)
- 204/0114 . . Alternansucrase (2.4.1.140)
- 204/01141 . . N-Acetylglucosaminyldiphosphodolichol N-acetylglucosaminyltransferase (2.4.1.141)
- 204/01142 . . Chitobiosyldiphosphodolichol beta-mannosyltransferase (2.4.1.142)
- 204/01143 . . Alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase (2.4.1.143)
- 204/01144 . . Beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase (2.4.1.144)
- 204/01145 . . Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase (2.4.1.145)
- 204/01146 . . Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase (2.4.1.146)
- 204/01147 . . Acetylglactosaminyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase (2.4.1.147)
- 204/01148 . . Acetylglactosaminyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase (2.4.1.148)
- 204/01149 . . N-Acetylglactosaminide beta-1,3-N-acetylglucosaminyltransferase (2.4.1.149)
- 204/0115 . . N-Acetylglactosaminide beta-1,6-N-acetylglucosaminyl-transferase (2.4.1.150)
- 204/01152 . . 4-Galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase (2.4.1.152)
- 204/01153 . . Dolichyl-phosphate alpha-N-acetylglucosaminyltransferase (2.4.1.153)
- 204/01155 . . Alpha-1,6-mannosyl-glycoprotein 6-beta-N-acetylglucosaminyltransferase (2.4.1.155)
- 204/01156 . . Indolylacetyl-myo-inositol galactosyltransferase (2.4.1.156)
- 204/01157 . . 1,2-Diacylglycerol 3-glucosyltransferase (2.4.1.157)
- 204/01158 . . 13-Hydroxydocosanoate 13-beta-glucosyltransferase (2.4.1.158)
- 204/01159 . . Flavonol-3-O-glucoside L-rhamnosyltransferase (2.4.1.159)
- 204/0116 . . Pyridoxine 5'-O-beta-D-glucosyltransferase (2.4.1.160)
- 204/01161 . . Oligosaccharide 4-alpha-D-glucosyltransferase (2.4.1.161)
- 204/01162 . . Aldose beta-D-fructosyltransferase (2.4.1.162)
- 204/01163 . . Beta-galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,3-acetylglucosaminyltransferase (2.4.1.163)
- 204/01164 . . Galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,6-N-acetylglucosaminyltransferase (2.4.1.164)
- 204/01165 . . N-Acetylneuraminylgalactosylglucosylceramide beta-1,4-N-acetylglactosaminyltransferase (2.4.1.165)
- 204/01166 . . Raffinose--raffinose alpha-galactosyltransferase (2.4.1.166)
- 204/01167 . . Sucrose 6F-alpha-galactosyltransferase (2.4.1.167)
- 204/01168 . . Xyloglucan 4-glucosyltransferase (2.4.1.168)
- 204/0117 . . Isoflavone 7-O-glucosyltransferase (2.4.1.170)
- 204/01171 . . Methyl-ONN-azoxymethanol beta-D-glucosyltransferase (2.4.1.171)
- 204/01172 . . Salicyl-alcohol beta-D-glucosyltransferase (2.4.1.172)
- 204/01173 . . Sterol 3-beta-glucosyltransferase (2.4.1.173)
- 204/01174 . . Glucuronylgalactosylproteoglycan 4-beta-N-acetylglactosaminyltransferase (2.4.1.174), i.e. chondroitin sulfate N-acetylglactosaminyltransferase-1
- 204/01175 . . Glucuronosyl-N-acetylglactosaminyl-proteoglycan 4-beta-N-acetylglactosaminyltransferase II (2.4.1.175)
- 204/01176 . . Gibberellin beta-D-glucosyltransferase (2.4.1.176)
- 204/01177 . . Cinnamate beta-D-glucosyltransferase (2.4.1.177)
- 204/01178 . . Hydroxymandelonitrile glucosyltransferase (2.4.1.178)
- 204/01179 . . Lactosylceramide beta-1,3-galactosyltransferase (2.4.1.179)
- 204/0118 . . Lipopolysaccharide N-acetylmannosaminouronosyltransferase (2.4.1.180)
- 204/01181 . . Hydroxyanthraquinone glucosyltransferase (2.4.1.181)
- 204/01182 . . Lipid-A-disaccharide synthase (2.4.1.182)
- 204/01183 . . Alpha-1,3-glucan synthase (2.4.1.183)
- 204/01184 . . Galactolipid galactosyltransferase (2.4.1.184)
- 204/01185 . . Flavanone 7-O-beta-glucosyltransferase (2.4.1.185)
- 204/01186 . . Glycogenin glucosyltransferase (2.4.1.186)

- 204/01187 . . N-Acetylglucosaminylidiphosphoundecaprenol N-acetyl-beta-D-mannosaminyltransferase (2.4.1.187)
- 204/01188 . . N-Acetylglucosaminylidiphosphoundecaprenol glucosyltransferase (2.4.1.188)
- 204/01189 . . Luteolin 7-O-glucuronosyltransferase (2.4.1.189)
- 204/0119 . . Luteolin-7-O-glucuronide 2''-O-glucuronosyltransferase (2.4.1.190)
- 204/01191 . . Luteolin-7-O-diglucuronide 4'-O-glucuronosyltransferase (2.4.1.191)
- 204/01192 . . Nuatigenin 3-beta-glucosyltransferase (2.4.1.192)
- 204/01193 . . Sarsapogenin 3-beta-glucosyltransferase (2.4.1.193)
- 204/01194 . . 4-Hydroxybenzoate 4-O-beta-D-glucosyltransferase (2.4.1.194)
- 204/01195 . . N-Hydroxythioamide S-beta-glucosyltransferase (2.4.1.195)
- 204/01196 . . Nicotinate glucosyltransferase (2.4.1.196)
- 204/01197 . . High-mannose-oligosaccharide beta-1,4-N-acetylglucosaminyltransferase (2.4.1.197)
- 204/01198 . . Phosphatidylinositol N-acetylglucosaminyltransferase (2.4.1.198)
- 204/01199 . . Beta-mannosylphosphodecaprenol--mannooligosaccharide 6-mannosyltransferase (2.4.1.199)
- 204/01201 . . Alpha-1,6-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase (2.4.1.201)
- 204/01202 . . 2,4-Dihydroxy-7-methoxy-2H-1,4-benzoxazin-3(4H)-one 2-D-glucosyltransferase (2.4.1.202)
- 204/01203 . . Trans-zeatin O-beta-D-glucosyltransferase (2.4.1.203)
- 204/01205 . . Galactogen 6-beta-galactosyltransferase (2.4.1.205)
- 204/01206 . . Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase (2.4.1.206)
- 204/01207 . . Xyloglucan:xyloglucosyl transferase (2.4.1.207)
- 204/01208 . . Diglucosyl diacylglycerol synthase (2.4.1.208)
- 204/01209 . . Cis-p-coumarate glucosyltransferase (2.4.1.209)
- 204/0121 . . Limonoid glucosyltransferase (2.4.1.210)
- 204/01211 . . 1,3-Beta-galactosyl-N-acetylhexosamine phosphorylase (2.4.1.211)
- 204/01212 . . Hyaluronan synthase (2.4.1.212)
- 204/01213 . . Glucosylglycerol-phosphate synthase (2.4.1.213)
- 204/01214 . . Glycoprotein 3-alpha-L-fucosyltransferase (2.4.1.214)
- 204/01215 . . Cis-zeatin O-beta-D-glucosyltransferase (2.4.1.215)
- 204/01216 . . Trehalose 6-phosphate phosphorylase (2.4.1.216)
- 204/01217 . . Mannosyl-3-phosphoglycerate synthase (2.4.1.217)
- 204/01218 . . Hydroquinone glucosyltransferase (2.4.1.218)
- 204/01219 . . Vomilenine glucosyltransferase (2.4.1.219)
- 204/0122 . . Indoxyl-UDPG glucosyltransferase (2.4.1.220)
- 204/01221 . . Peptide-O-fucosyltransferase (2.4.1.221)
- 204/01222 . . O-Fucosylpeptide 3-beta-N-acetylglucosaminyltransferase (2.4.1.222)
- 204/01223 . . Glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase (2.4.1.223)
- 204/01224 . . Glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase (2.4.1.224)
- 204/01225 . . N-Acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase (2.4.1.225)
- 204/01226 . . N-Acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase (2.4.1.226), i.e. chondroitin sulfate glucuronyltransferase
- 204/01227 . . Undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase (2.4.1.227)
- 204/01228 . . Lactosylceramide 4-alpha-galactosyltransferase (2.4.1.228)
- 204/01229 . . [Skp1-protein]-hydroxyproline N-acetylglucosaminyltransferase (2.4.1.229)
- 204/0123 . . Kojibiose phosphorylase (2.4.1.230)
- 204/01231 . . Alpha,alpha-trehalose phosphorylase (configuration-retaining) (2.4.1.231)
- 204/01232 . . Initiation-specific alpha-1,6-mannosyltransferase (2.4.1.232)
- 204/01234 . . Kaempferol 3-O-galactosyltransferase (2.4.1.234)
- 204/01236 . . Flavanone 7-O-glucoside 2''-O-beta-L-rhamnosyltransferase (2.4.1.236)
- 204/01237 . . Flavonol 7-O-beta-glucosyltransferase (2.4.1.237)
- 204/01238 . . Anthocyanin 3'-O-beta-glucosyltransferase (2.4.1.238)
- 204/01239 . . Flavonol-3-O-glucoside glucosyltransferase (2.4.1.239)
- 204/0124 . . Flavonol-3-O-glycoside glucosyltransferase (2.4.1.240)
- 204/01241 . . Digalactosyldiacylglycerol synthase (2.4.1.241)
- 204/01242 . . NDP-glucose--starch glucosyltransferase (2.4.1.242)
- 204/01243 . . 6G-Fructosyltransferase (2.4.1.243)
- 204/01244 . . N-Acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-acetylgalactosaminyltransferase (2.4.1.244)
- 204/01245 . . Alpha,alpha-trehalose synthase (2.4.1.245)
- 204/01246 . . Mannosylfructose-phosphate synthase (2.4.1.246)
- 204/01247 . . Beta-D-galactosyl-(1->4)-L-rhamnose phosphorylase (2.4.1.247)
- 204/01248 . . Cycloisomaltooligosaccharide glucanotransferase (2.4.1.248)
- 204/01249 . . Delphinidin 3',5'-O-glucosyltransferase (2.4.1.249)
- 204/0125 . . D-Inositol-3-phosphate glycosyltransferase (2.4.1.250)
- 204/01251 . . GlcA-beta-(1->2)-D-Man-alpha-(1->3)-D-Glc-beta-(1->4)-D-Glc-alpha-1-diphosphoundecaprenol 4-beta-mannosyltransferase (2.4.1.251)
- 204/01252 . . GDP-mannose:cellobiosyl-diphosphopolyprenol alpha-mannosyltransferase (2.4.1.252)
- 204/01253 . . Baicalein 7-O-glucuronosyltransferase (2.4.1.253)
- 204/01254 . . Cyanidin-3-O-glucoside 2-O-glucuronosyltransferase (2.4.1.254)
- 204/01255 . . Protein O-GlcNAc transferase (2.4.1.255)
- 204/01256 . . Dolichyl-P-Glc:Glc2Man9GlcNAc2-PP-dolichol alpha-1,2-glucosyltransferase (2.4.1.256)
- 204/01257 . . GDP-Man:Man2GlcNAc2-PP-dolichol alpha-1,6-mannosyltransferase (2.4.1.257)
- 204/01258 . . Dolichyl-P-Man:Man5GlcNAc2-PP-dolichol alpha-1,3-mannosyltransferase (2.4.1.258)
- 204/01259 . . Dolichyl-P-Man:Man6GlcNAc2-PP-dolichol alpha-1,2-mannosyltransferase (2.4.1.259)
- 204/0126 . . Dolichyl-P-Man:Man7GlcNAc2-PP-dolichol alpha-1,6-mannosyltransferase (2.4.1.260)
- 204/01261 . . Dolichyl-P-Man:Man8GlcNAc2-PP-dolichol alpha-1,2-mannosyltransferase (2.4.1.261)
- 204/01262 . . Soyasapogenol glucuronosyltransferase (2.4.1.262)

- 204/01263 . . Abscisate beta-glucosyltransferase (2.4.1.263)
- 204/01264 . . D-Man-alpha-(1->3)-D-Glc-beta-(1->4)-D-Glc-alpha-1-diphosphoundecaprenol 2-beta-glucuronyltransferase (2.4.1.264)
- 204/01265 . . Dolichyl-P-Glc:Glc1Man9GlcNAc2-PP-dolichol alpha-1,3-glucosyltransferase (2.4.1.265)
- 204/01266 . . Glucosyl-3-phosphoglycerate synthase (2.4.1.266)
- 204/01267 . . Dolichyl-P-Glc:Man9GlcNAc2-PP-dolichol alpha-1,3-glucosyltransferase (2.4.1.267)
- 204/01268 . . Glucosylglycerate synthase (2.4.1.268)
- 204/01269 . . Mannosylglycerate synthase (2.4.1.269)
- 204/0127 . . Mannosylglucosyl-3-phosphoglycerate synthase (2.4.1.270)
- 204/01271 . . Crocetin glucosyltransferase (2.4.1.271)
- 204/01272 . . Soyasapogenol B glucuronide galactosyltransferase (2.4.1.272)
- 204/01273 . . Soyasaponin III rhamnosyltransferase (2.4.1.273)
- 204/01274 . . Glucosylceramide beta-1,4-galactosyltransferase (2.4.1.274)
- 204/01275 . . Lactotriaosylceramide beta-1,4-galactosyltransferase (2.4.1.275)
- 204/01276 . . Zeaxanthin glucosyltransferase (2.4.1.276)
- 204/01277 . . Glycosyltransferase DesVII (2.4.1.277)
- 204/01278 . . Desosaminyl transferase EryCIII (2.4.1.278)
- 204/01279 . . Nigerose phosphorylase (2.4.1.279)
- 204/0128 . . N,N'-Diacetylchitobiose phosphorylase (2.4.1.280)
- 204/01281 . . 4-O-Beta-D-mannosyl-D-glucose phosphorylase (2.4.1.281)
- 204/01282 . . 3-O-Alpha-D-glucosyl-L-rhamnose phosphorylase (2.4.1.282)
- 204/01283 . . 2-Deoxystreptamine N-acetyl-D-glucosaminyltransferase (2.4.1.283)
- 204/01284 . . 2-Deoxystreptamine glucosyltransferase (2.4.1.284)
- 204/01285 . . UDP-GlcNAc:ribostamycin N-acetylglucosaminyltransferase (2.4.1.285)
- 204/01286 . . Chalcone 4'-O-glucosyltransferase (2.4.1.286)
- 204/01287 . . Rhamnopyranosyl-N-acetylglucosaminyl-diphospho-decaprenol beta-1,3/1,4-galactofuranosyltransferase (2.4.1.287)
- 204/01288 . . Galactofuranosylgalactofuranosylrhamnosyl-N-acetylglucosaminyl-diphospho-decaprenol beta-1,5/1,6-galactofuranosyltransferase (2.4.1.288)
- 204/01289 . . N-Acetylglucosaminyl-diphospho-decaprenol L-rhamnosyltransferase (2.4.1.289)
- 204/0129 . . N,N'-Diacetylbaucillosaminyl-diphospho-undecaprenol alpha-1,3-N-acetylglactosaminyltransferase (2.4.1.290)
- 204/01291 . . N-Acetylglactosamine-N,N'-diacetylbaucillosaminyl-diphospho-undecaprenol 4-alpha-N-acetylglactosaminyltransferase (2.4.1.291)
- 204/01292 . . GalNAc-alpha-(1->4)-GalNAc-alpha-(1->3)-diNAcBac-PP-undecaprenol alpha-1,4-N-acetyl-D-galactosaminyltransferase (2.4.1.292)
- 204/01293 . . GalNAc5-diNAcBac-PP-undecaprenol beta-1,3-glucosyltransferase (2.4.1.293)
- 204/02 . . Pentosyltransferases (2.4.2)
- 204/02001 . . Purine-nucleoside phosphorylase (2.4.2.1)
- 204/02002 . . Pyrimidine-nucleoside phosphorylase (2.4.2.2)
- 204/02003 . . Uridine phosphorylase (2.4.2.3)
- 204/02004 . . Thymidine phosphorylase (2.4.2.4)
- 204/02005 . . Nucleoside ribosyltransferase (2.4.2.5)
- 204/02006 . . Nucleoside deoxyribosyltransferase (2.4.2.6)
- 204/02007 . . Adenine phosphoribosyltransferase (2.4.2.7)
- 204/02008 . . Hypoxanthine phosphoribosyltransferase (2.4.2.8)
- 204/02009 . . Uracil phosphoribosyltransferase (2.4.2.9)
- 204/0201 . . Orotate phosphoribosyltransferase (2.4.2.10)
- 204/02011 . . Nicotinate phosphoribosyltransferase (2.4.2.11)
- 204/02012 . . Nicotinamide phosphoribosyltransferase (2.4.2.12), i.e. visfatin
- 204/02014 . . Amidophosphoribosyltransferase (2.4.2.14)
- 204/02015 . . Guanosine phosphorylase (2.4.2.15)
- 204/02016 . . Urate-ribonucleotide phosphorylase (2.4.2.16)
- 204/02017 . . ATP phosphoribosyltransferase (2.4.2.17)
- 204/02018 . . Anthranilate phosphoribosyltransferase (2.4.2.18)
- 204/02019 . . Nicotinate-nucleotide diphosphorylase (carboxylating) (2.4.2.19)
- 204/0202 . . Dioxotetrahydropyrimidine phosphoribosyltransferase (2.4.2.20)
- 204/02021 . . Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase (2.4.2.21)
- 204/02022 . . Xanthine phosphoribosyltransferase (2.4.2.22)
- 204/02023 . . Deoxyuridine phosphorylase (2.4.2.23)
- 204/02024 . . 1,4-Beta-D-xylan synthase (2.4.2.24)
- 204/02025 . . Flavone apiosyltransferase (2.4.2.25)
- 204/02026 . . Protein xylosyltransferase (2.4.2.26)
- 204/02027 . . dTDP-dihydrostreptose--streptidine-6-phosphate dihydrostreptosyltransferase (2.4.2.27)
- 204/02028 . . S-Methyl-5'-thioadenosine phosphorylase (2.4.2.28)
- 204/02029 . . tRNA-guanosine34 transglycosylase (2.4.2.29)
- 204/0203 . . NAD+ ADP-ribosyltransferase (2.4.2.30), i.e. tankyrase or poly(ADP-ribose) polymerase
- 204/02031 . . NAD+-protein-arginine ADP-ribosyltransferase (2.4.2.31)
- 204/02032 . . Dolichyl-phosphate D-xylosyltransferase (2.4.2.32)
- 204/02033 . . Dolichyl-xylosyl-phosphate--protein xylosyltransferase (2.4.2.33)
- 204/02034 . . Indolylacetylinositol arabinosyltransferase (2.4.2.34)
- 204/02035 . . Flavonol-3-O-glycoside xylosyltransferase (2.4.2.35)
- 204/02036 . . NAD(+)--diphthamide ADP-ribosyltransferase (2.4.2.36)
- 204/02037 . . NAD(+)--dinitrogen-reductase ADP-D-ribosyltransferase (2.4.2.37)
- 204/02038 . . Glycoprotein 2-beta-D-xylosyltransferase (2.4.2.38)
- 204/02039 . . Xyloglucan 6-xylosyltransferase (2.4.2.39)
- 204/0204 . . Zeatin O-beta-D-xylosyltransferase (2.4.2.40)
- 204/02041 . . Xylogalacturonan beta-1,3-xylosyltransferase (2.4.2.41)
- 204/02042 . . UDP-D-xylose:beta-D-glucoside alpha-1,3-D-xylosyltransferase (2.4.2.42)
- 204/02043 . . Lipid IVA 4-amino-4-deoxy-L-arabinosyltransferase (2.4.2.43)
- 204/02044 . . S-Methyl-5'-thioinosine phosphorylase (2.4.2.44)
- 204/02045 . . Decaprenyl-phosphate phosphoribosyltransferase (2.4.2.45)
- 204/02046 . . Galactan 5-O-arabinofuranosyltransferase (2.4.2.46)

- 204/02047 . . Arabinofuranan 3-O-arabinosyltransferase (2.4.2.47)
- 204/02048 . . tRNA-guanine15 transglycosylase (2.4.2.48)
- 204/99 . . transferring other glycosyl groups (2.4.99)
- 204/99001 . . Beta-galactoside alpha-2,6-sialyltransferase (2.4.99.1)
- 204/99002 . . Monosialoganglioside sialyltransferase (2.4.99.2)
- 204/99003 . . Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase (2.4.99.3)
- 204/99004 . . Beta-galactoside alpha-2,3-sialyltransferase (2.4.99.4)
- 204/99005 . . Galactosyldiacylglycerol alpha-2,3-sialyltransferase (2.4.99.5)
- 204/99006 . . N-Acetylactosaminide alpha-2,3-sialyltransferase (2.4.99.6)
- 204/99007 . . Alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3-N-acetylgalactosaminide 6-alpha-sialyltransferase (2.4.99.7)
- 204/99008 . . Alpha-N-acetylneuraminate alpha-2,8-sialyltransferase (2.4.99.8)
- 204/99009 . . Lactosylceramide alpha-2,3-sialyltransferase (2.4.99.9)
- 204/9901 . . Neolactotetraosylceramide alpha-2,3-sialyltransferase (2.4.99.10)
- 204/99011 . . Lactosylceramide alpha-2,6-N-sialyltransferase (2.4.99.11)
- 204/99012 . . Lipid IVA 3-deoxy-D-manno-octulosonic acid transferase (2.4.99.12)
- 204/99013 . . (KDO)-lipid IVA 3-deoxy-D-manno-octulosonic acid transferase (2.4.99.13)
- 204/99014 . . (KDO)2-lipid IVA (2-8) 3-deoxy-D-manno-octulosonic acid transferase (2.4.99.14)
- 204/99015 . . (KDO)3-lipid IVA (2-4) 3-deoxy-D-manno-octulosonic acid transferase (2.4.99.15)
- 204/99016 . . Starch synthase (maltosyl-transferring) (2.4.99.16)
- 204/99017 . . S-Adenosylmethionine:tRNA ribosyltransferase-isomerase (2.4.99.17)
- 204/99018 . . Dolichyl-diphosphooligosaccharide—protein glycotransferase (2.4.99.18)
- 204/99019 . . Undecaprenyl-diphosphooligosaccharide—protein glycotransferase (2.4.99.19)
- 205/00    Transferases transferring alkyl or aryl groups, other than methyl groups (2.5)**
- 205/01 . . transferring alkyl or aryl groups, other than methyl groups (2.5.1)
- 205/01001 . . Dimethylallyltranstransferase (2.5.1.1)
- 205/01002 . . Thiamine pyridinylase (2.5.1.2)
- 205/01003 . . Thiamine-phosphate diphosphorylase (2.5.1.3)
- 205/01004 . . Adenosylmethionine cyclotransferase (2.5.1.4)
- 205/01005 . . Galactose-6-sulfurylase (2.5.1.5)
- 205/01006 . . Methionine adenosyltransferase (2.5.1.6), i.e. adenosylmethionine synthetase
- 205/01007 . . UDP-N-acetylglucosamine 1-carboxyvinyltransferase (2.5.1.7)
- 205/01009 . . Riboflavin synthase (2.5.1.9)
- 205/0101 . . (2E,6E)-Farnesyl diphosphate synthase (2.5.1.10), i.e. geranyltranstransferase
- 205/01011 . . Trans-octaprenyltranstransferase (2.5.1.11) ([C12Y 205/01084](#), [C12Y 205/01085 take precedence](#))
- 205/01015 . . Dihydropteroate synthase (2.5.1.15)
- 205/01016 . . Spermidine synthase (2.5.1.16)
- 205/01017 . . Cob(I)yrinic acid a,c-diamide adenosyltransferase (2.5.1.17)
- 205/01018 . . Glutathione transferase (2.5.1.18)
- 205/01019 . . 3-Phosphoshikimate 1-carboxyvinyltransferase (2.5.1.19), i.e. 5-enolpyruvylshikimate-3-phosphate synthase
- 205/0102 . . Rubber cis-polyprenylcistransferase (2.5.1.20)
- 205/01021 . . Squalene synthase (2.5.1.21), i.e. farnesyl-diphosphate farnesyltransferase
- 205/01022 . . Spermine synthase (2.5.1.22)
- 205/01023 . . Sym-norspermidine synthase (2.5.1.23)
- 205/01024 . . Discadenine synthase (2.5.1.24)
- 205/01025 . . tRNA-uridine aminocarboxypropyltransferase (2.5.1.25)
- 205/01026 . . Alkylglycerone-phosphate synthase (2.5.1.26)
- 205/01027 . . Adenylate dimethylallyltransferase (2.5.1.27)
- 205/01028 . . Dimethylallylcistransferase (2.5.1.28)
- 205/01029 . . Geranylgeranyl diphosphate synthase (2.5.1.29)
- 205/0103 . . Heptaprenyl diphosphate synthase (2.5.1.30)
- 205/01031 . . Ditrans,polycis-undecaprenyl-diphosphate synthase [(2E,6E)-farnesyl-diphosphate specific] (2.5.1.31)
- 205/01032 . . 15-Cis-phytoene synthase (2.5.1.32)
- 205/01033 . . Trans-pentaprenyltranstransferase (2.5.1.33) ([C12Y 205/01082](#), [C12Y 205/01083 take precedence](#))
- 205/01034 . . 4-Dimethylallyltryptophan synthase (2.5.1.34)
- 205/01035 . . Aspulvinone dimethylallyltransferase (2.5.1.35)
- 205/01036 . . Trihydroxypterocarpan dimethylallyltransferase (2.5.1.36)
- 205/01038 . . Isonocardicin synthase (2.5.1.38)
- 205/01039 . . 4-Hydroxybenzoate polyprenyltransferase (2.5.1.39)
- 205/01041 . . Phosphoglycerol geranylgeranyltransferase (2.5.1.41)
- 205/01042 . . Geranylgeranyl glycerol-phosphate geranylgeranyltransferase (2.5.1.42)
- 205/01043 . . Nicotianamine synthase (2.5.1.43)
- 205/01044 . . Homospermidine synthase (2.5.1.44)
- 205/01045 . . Homospermidine synthase (spermidine-specific) (2.5.1.45)
- 205/01046 . . Deoxyhypusine synthase (2.5.1.46)
- 205/01047 . . Cysteine synthase (2.5.1.47)
- 205/01048 . . Cystathionine gamma-synthase (2.5.1.48)
- 205/01049 . . O-acetylhomoserine aminocarboxypropyltransferase (2.5.1.49)
- 205/0105 . . Zeatin 9-aminocarboxyethyltransferase (2.5.1.50)
- 205/01051 . . Beta-pyrazolylalanine synthase (2.5.1.51)
- 205/01052 . . L-Mimosine synthase (2.5.1.52)
- 205/01053 . . Uracilylalanine synthase (2.5.1.53)
- 205/01054 . . 3-Deoxy-7-phosphoheptulonate synthase (2.5.1.54)
- 205/01055 . . 3-Deoxy-8-phosphooctulonate synthase (2.5.1.55)
- 205/01056 . . N-acetylneuraminate synthase (2.5.1.56)
- 205/01057 . . N-Acylneuraminate-9-phosphate synthase (2.5.1.57)
- 205/01058 . . Protein farnesyltransferase (2.5.1.58)
- 205/01059 . . Protein geranylgeranyltransferase type I (2.5.1.59)
- 205/0106 . . Protein geranylgeranyltransferase type II (2.5.1.60)
- 205/01061 . . Hydroxymethylbilane synthase (2.5.1.61)
- 205/01062 . . Chlorophyll synthase (2.5.1.62)

- 205/01063 . . Adenosyl-fluoride synthase (2.5.1.63)  
 205/01064 . . 2-Succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase (2.5.1.64)  
[\(C12Y 202/01009, C12Y 402/9902 take precedence\)](#)  
 205/01065 . . O-Phosphoserine sulfhydrylase (2.5.1.65)  
 205/01066 . . N<sup>2</sup>-(2-Carboxyethyl)arginine synthase (2.5.1.66)  
 205/01067 . . Chrysanthemyl diphosphate synthase (2.5.1.67)  
 205/01068 . . (2Z,6E)-Farnesyl diphosphate synthase (2.5.1.68)  
 205/01069 . . Lavandulyl diphosphate synthase (2.5.1.69)  
 205/0107 . . Naringenin 8-dimethylallyltransferase (2.5.1.70)  
 205/01071 . . Leachianone-G 2"-dimethylallyltransferase (2.5.1.71)  
 205/01072 . . Quinolinate synthase (2.5.1.72)  
 205/01073 . . O-Phospho-L-seryl-tRNA:Cys-tRNA synthase (2.5.1.73)  
 205/01074 . . 1,4-Dihydroxy-2-naphthoate polyprenyltransferase (2.5.1.74)  
 205/01075 . . tRNA dimethylallyltransferase (2.5.1.75)  
 205/01076 . . Cysteate synthase (2.5.1.76)  
 205/01077 . . 7,8-Didemethyl-8-hydroxy-5-deazariboflavin synthase (2.5.1.77)  
 205/01078 . . 6,7-Dimethyl-8-ribityllumazine synthase (2.5.1.78)  
 205/01079 . . Thermospermine synthase (2.5.1.79)  
 205/0108 . . 7-Dimethylallyltryptophan synthase (2.5.1.80)  
 205/01081 . . Geranylgeranyl diphosphate synthase (2.5.1.81)  
 205/01082 . . Hexaprenyl diphosphate synthase (geranylgeranyl-diphosphate specific)(2.5.1.82)  
 205/01083 . . Hexaprenyl-diphosphate synthase ((2E,6E)-farnesyl-diphosphate specific)(2.5.1.83)  
 205/01084 . . All-trans-nonaprenyl-diphosphate synthase (geranyl-diphosphate specific)(2.5.1.84)  
 205/01085 . . All-trans-nonaprenyl-diphosphate synthase (geranylgeranyl-diphosphate specific)(2.5.1.85)  
 205/01086 . . Trans,polycis-decaprenyl diphosphate synthase (2.5.1.86)  
 205/01087 . . Ditrans,polycis-polyprenyl diphosphate synthase ((2E,6E)-farnesyl diphosphate specific)(2.5.1.87)  
 205/01088 . . Trans,polycis-polyprenyl diphosphate synthase ((2Z,6E)-farnesyl diphosphate specific)(2.5.1.88)  
 205/01089 . . Tritrans,polycis-undecaprenyl-diphosphate synthase (geranylgeranyl-diphosphate specific) (2.5.1.89)  
 205/0109 . . All-trans-octaprenyl-diphosphate synthase (2.5.1.90)  
 205/01091 . . All-trans-decaprenyl-diphosphate synthase (2.5.1.91)  
 205/01092 . . (2Z,6Z)-Farnesyl diphosphate synthase (2.5.1.92)  
 205/01093 . . 4-Hydroxybenzoate geranyltransferase (2.5.1.93)  
 205/01094 . . Adenosyl-chloride synthase (2.5.1.94)  
 205/01095 . . Xanthan ketal pyruvate transferase (2.5.1.95)  
 205/01096 . . 4,4'-diapophytoene synthase (2.5.1.96)  
 205/01097 . . Pseudaminic acid synthase (2.5.1.97)  
 205/01098 . . Rhizobium leguminosarum exopolysaccharide glucosyl ketal-pyruvate-transferase (2.5.1.98)  
 205/01099 . . All-trans-phytoene synthase (2.5.1.99)  
 205/011 . . Fumigaclavine A dimethylallyltransferase (2.5.1.100)  
 205/01101 . . N,N'-Diacetyllegionamininate synthase (2.5.1.101)  
 205/01102 . . Geranyl-pyrophosphate—olivetolic acid geranyltransferase (2.5.1.102)  
 205/01103 . . Presqualene diphosphate synthase (2.5.1.103)  
**206/00    Transferases transferring nitrogenous groups (2.6)**  
 206/01 . . Transaminases (2.6.1)  
 206/01001 . . Aspartate transaminase (2.6.1.1), i.e. aspartate-aminotransferase  
 206/01002 . . Alanine transaminase (2.6.1.2), i.e. alanine-aminotransferase  
 206/01003 . . Cysteine transaminase (2.6.1.3)  
 206/01004 . . Glycine transaminase (2.6.1.4)  
 206/01005 . . Tyrosine transaminase (2.6.1.5)  
 206/01006 . . Leucine transaminase (2.6.1.6)  
 206/01007 . . Kynurenine--oxoglutarate transaminase (2.6.1.7)  
 206/01008 . . 2,5-Diaminovalerate transaminase (2.6.1.8)  
 206/01009 . . Histidinol-phosphate transaminase (2.6.1.9)  
 206/01011 . . Acetylornithine transaminase (2.6.1.11)  
 206/01012 . . Alanine--oxo-acid transaminase (2.6.1.12)  
 206/01013 . . Ornithine aminotransferase (2.6.1.13)  
 206/01014 . . Asparagine--oxo-acid transaminase (2.6.1.14)  
 206/01015 . . Glutamine--pyruvate transaminase (2.6.1.15)  
 206/01016 . . Glutamine-fructose-6-phosphate transaminase (isomerizing) (2.6.1.16), i.e. glucosamine-6-phosphate-synthase  
 206/01017 . . Succinyl-diaminopimelate transaminase (2.6.1.17)  
 206/01018 . . Beta-alanine-pyruvate transaminase (2.6.1.18)  
 206/01019 . . 4-Aminobutyrate—2-oxoglutarate transaminase (2.6.1.19)  
 206/01021 . . D-Amino-acid transaminase (2.6.1.21), i.e. D-alanine aminotransferase/transaminase or D-aspartic aminotransferase/transaminase  
 206/01022 . . (S)-3-Amino-2-methylpropionate transaminase (2.6.1.22)  
 206/01023 . . 4-Hydroxyglutamate transaminase (2.6.1.23)  
 206/01024 . . Diiodotyrosine transaminase (2.6.1.24)  
 206/01026 . . Thyroid-hormone transaminase (2.6.1.26)  
 206/01027 . . Tryptophan transaminase (2.6.1.27)  
 206/01028 . . Tryptophan--phenylpyruvate transaminase (2.6.1.28)  
 206/01029 . . Diamine transaminase (2.6.1.29)  
 206/0103 . . Pyridoxamine--pyruvate transaminase (2.6.1.30)  
 206/01031 . . Pyridoxamine--oxaloacetate transaminase (2.6.1.31)  
 206/01032 . . Valine--3-methyl-2-oxovalerate transaminase (2.6.1.32)  
 206/01033 . . dTDP-4-amino-4,6-dideoxy-D-glucose transaminase (2.6.1.33)  
 206/01034 . . UDP-2-acetamido-4-amino-2,4,6-trideoxyglucose transaminase (2.6.1.34)  
 206/01035 . . Glycine--oxaloacetate transaminase (2.6.1.35)  
 206/01036 . . L-Lysine 6-transaminase (2.6.1.36)  
 206/01037 . . 2-Aminoethylphosphonate--pyruvate transaminase (2.6.1.37)  
 206/01038 . . Histidine transaminase (2.6.1.38)  
 206/01039 . . 2-Amino adipate transaminase (2.6.1.39)  
 206/0104 . . (R)-3-Amino-2-methylpropionate--pyruvate transaminase (2.6.1.40)  
 206/01041 . . D-Methionine--pyruvate transaminase (2.6.1.41)  
 206/01042 . . Branched-chain-amino-acid transaminase (2.6.1.42)  
 206/01043 . . Aminolevulinate transaminase (2.6.1.43)  
 206/01044 . . Alanine--glyoxylate transaminase (2.6.1.44)  
 206/01045 . . Serine--glyoxylate transaminase (2.6.1.45)  
 206/01046 . . Diaminobutyrate--pyruvate transaminase (2.6.1.46)  
 206/01047 . . Alanine--oxomalonnate transaminase (2.6.1.47)

- 206/01048 . . 5-Aminovalerate transaminase (2.6.1.48)  
 206/01049 . . Dihydroxyphenylalanine transaminase (2.6.1.49)  
 206/0105 . . Glutamine--scyllo-inositol transaminase (2.6.1.50)  
 206/01051 . . Serine--pyruvate transaminase (2.6.1.51)  
 206/01052 . . Phosphoserine transaminase (2.6.1.52)  
 206/01054 . . Pyridoxamine-phosphate transaminase (2.6.1.54)  
 206/01055 . . Taurine--2-oxoglutarate transaminase (2.6.1.55)  
 206/01056 . . 1D-1-Guanidino-3-amino-1,3-dideoxy-scyllo-inositol transaminase (2.6.1.56)  
 206/01057 . . Aromatic-amino-acid transaminase (2.6.1.57)  
 206/01058 . . Phenylalanine(histidine) transaminase (2.6.1.58)  
 206/01059 . . dTDP-4-amino-4,6-dideoxygalactose transaminase (2.6.1.59)  
 206/0106 . . Aromatic-amino-acid--glyoxylate transaminase (2.6.1.60)  
 206/01062 . . Adenosylmethionine--8-amino-7-oxononanoate transaminase (2.6.1.62)  
 206/01063 . . Kynurenine--glyoxylate transaminase (2.6.1.63)  
 206/01064 . . Glutamine-phenylpyruvate transaminase (2.6.1.64)  
 206/01065 . . N6-Acetyl-beta-lysine transaminase (2.6.1.65)  
 206/01066 . . Valine--pyruvate transaminase (2.6.1.66)  
 206/01067 . . 2-Aminohexanoate transaminase (2.6.1.67)  
 206/01068 . . Ornithine(lysine) transaminase (2.6.1.68)  
 206/0107 . . Aspartate--phenylpyruvate transaminase (2.6.1.70)  
 206/01071 . . Lysine--pyruvate 6-transaminase (2.6.1.71)  
 206/01072 . . D-4-Hydroxyphenylglycine transaminase (2.6.1.72)  
 206/01073 . . Methionine--glyoxylate transaminase (2.6.1.73)  
 206/01074 . . Cephalosporin-C transaminase (2.6.1.74)  
 206/01075 . . Cysteine-conjugate transaminase (2.6.1.75)  
 206/01076 . . Diaminobutyrate--2-oxoglutarate transaminase (2.6.1.76)  
 206/01077 . . Taurine--pyruvate aminotransferase (2.6.1.77)  
 206/01078 . . Aspartate--prephenate aminotransferase (2.6.1.78)  
 206/01079 . . Glutamate--prephenate aminotransferase (2.6.1.79)  
 206/0108 . . Nicotianamine aminotransferase (2.6.1.80)  
 206/01081 . . Succinylornithine transaminase (2.6.1.81)  
 206/01082 . . Putrescine aminotransferase (2.6.1.82)  
 206/01083 . . LL-Diaminopimelate aminotransferase (2.6.1.83)  
 206/01084 . . Arginine--pyruvate transaminase (2.6.1.84)  
 206/01085 . . Aminodeoxychorismate synthase (2.6.1.85)  
 206/01086 . . 2-Amino-4-deoxychorismate synthase (2.6.1.86)  
 206/01087 . . UDP-4-amino-4-deoxy-L-arabinose aminotransferase (2.6.1.87)  
 206/01088 . . Methionine transaminase (2.6.1.88)  
 206/01089 . . dTDP-3-amino-3,6-dideoxy-alpha-D-glucopyranose transaminase (2.6.1.89)  
 206/0109 . . dTDP-3-amino-3,6-dideoxy-alpha-D-galactopyranose transaminase (2.6.1.90)  
 206/01091 . . UDP-4-amino-4,6-dideoxy-alpha-D-N-acetyl-D-glucosamine transaminase (2.6.1.91)  
 206/01092 . . UDP-4-amino-4,6-dideoxy-L-N-acetyl-beta-L-altrosamine transaminase (2.6.1.92)  
 206/01093 . . Neamine transaminase (2.6.1.93)  
 206/01094 . . 2'-Deamino-2'-hydroxyneamine transaminase (2.6.1.94)  
 206/01095 . . Neomycin C transaminase (2.6.1.95)  
 206/01096 . . 4-Aminobutyrate—pyruvate transaminase (2.6.1.96)  
 206/01097 . . Archaeosine synthase (2.6.1.97)  
 206/01098 . . UDP-2-acetamido-2-deoxy-ribo-hexuluronate aminotransferase (2.6.1.98)  
 206/01099 . . L-Tryptophan—pyruvate aminotransferase (2.6.1.99)  
 206/03 . . Oximinotransferases (2.6.3)  
 206/03001 . . Oximinotransferase (2.6.3.1)  
 206/99 . . transferring other nitrogenous groups (2.6.99)  
 206/99001 . . dATP(dGTP)--DNA purinetransferase (2.6.99.1)  
 206/99002 . . Pyridoxine 5'-phosphate synthase (2.6.99.2)
- 207/00    Transferases transferring phosphorus-containing groups (2.7)**
- 207/01 . . Phosphotransferases with an alcohol group as acceptor (2.7.1)
- 207/01001 . . Hexokinase (2.7.1.1)  
 207/01002 . . Glucokinase (2.7.1.2)  
 207/01003 . . Ketohexokinase (2.7.1.3)  
 207/01004 . . Fructokinase (2.7.1.4)  
 207/01005 . . Rhamnulokinase (2.7.1.5)  
 207/01006 . . Galactokinase (2.7.1.6)  
 207/01007 . . Mannokinase (2.7.1.7)  
 207/01008 . . Glucosamine kinase (2.7.1.8)  
 207/0101 . . Phosphoglucokinase (2.7.1.10)  
 207/01011 . . 6-Phosphofructokinase (2.7.1.11)  
 207/01012 . . Gluconokinase (2.7.1.12)  
 207/01013 . . Dehydrogluconokinase (2.7.1.13)  
 207/01014 . . Sedoheptulokinase (2.7.1.14)  
 207/01015 . . Ribokinase (2.7.1.15)  
 207/01016 . . Ribulokinase (2.7.1.16)  
 207/01017 . . Xylulokinase (2.7.1.17)  
 207/01018 . . Phosphoribokinase (2.7.1.18)  
 207/01019 . . Phosphoribulokinase (2.7.1.19)  
 207/0102 . . Adenosine kinase (2.7.1.20)  
 207/01021 . . Thymidine kinase (2.7.1.21)  
 207/01022 . . Ribosylnicotinamide kinase (2.7.1.22)  
 207/01023 . . NAD<sup>+</sup> kinase (2.7.1.23)  
 207/01024 . . Dephospho-CoA kinase (2.7.1.24)  
 207/01025 . . Adenylyl-sulfate kinase (2.7.1.25)  
 207/01026 . . Riboflavin kinase (2.7.1.26)  
 207/01027 . . Erythritol kinase (2.7.1.27)  
 207/01028 . . Triokinase (2.7.1.28)  
 207/01029 . . Glycerone kinase (2.7.1.29), i.e. dihydroxyacetone kinase  
 207/0103 . . Glycerol kinase (2.7.1.30)  
 207/01031 . . Glycerate kinase (2.7.1.31)  
 207/01032 . . Choline kinase (2.7.1.32)  
 207/01033 . . Pantothenate kinase (2.7.1.33)  
 207/01034 . . Pantetheine kinase (2.7.1.34)  
 207/01035 . . Pyridoxal kinase (2.7.1.35)  
 207/01036 . . Mevalonate kinase (2.7.1.36)  
 207/01037 . . Protein kinase (2.7.1.37) ([C12Y 207/11001](#), [C12Y 207/11008](#) - [C12Y 207/11013](#), [C12Y 207/11021](#), [C12Y 207/11022](#), [C12Y 207/11024](#), [C12Y 207/11025](#), [C12Y 207/1103](#), [C12Y 207/12001](#) take precedence)  
 207/01039 . . Homoserine kinase (2.7.1.39)  
 207/0104 . . Pyruvate kinase (2.7.1.40)  
 207/01041 . . Glucose-1-phosphate phosphodismutase (2.7.1.41)  
 207/01042 . . Riboflavin phosphotransferase (2.7.1.42)  
 207/01043 . . Glucuronokinase (2.7.1.43)



- 207/01044 . . Galacturonokinase (2.7.1.44)
- 207/01045 . . 2-Dehydro-3-deoxygluconokinase (2.7.1.45)
- 207/01046 . . L-Arabinokinase (2.7.1.46)
- 207/01047 . . D-Ribulokinase (2.7.1.47)
- 207/01048 . . Uridine kinase (2.7.1.48)
- 207/01049 . . Hydroxymethylpyrimidine kinase (2.7.1.49)
- 207/0105 . . Hydroxyethylthiazole kinase (2.7.1.50)
- 207/01051 . . L-Fuculokinase (2.7.1.51)
- 207/01052 . . Fucokinase (2.7.1.52)
- 207/01053 . . L-Xylulokinase (2.7.1.53)
- 207/01054 . . D-Arabinokinase (2.7.1.54)
- 207/01055 . . Allose kinase (2.7.1.55)
- 207/01056 . . 1-Phosphofructokinase (2.7.1.56)
- 207/01058 . . 2-Dehydro-3-deoxygalactonokinase (2.7.1.58)
- 207/01059 . . N-Acetylglucosamine kinase (2.7.1.59)
- 207/0106 . . N-Acylmannosamine kinase (2.7.1.60)
- 207/01061 . . Acyl-phosphate--hexose phosphotransferase (2.7.1.61)
- 207/01062 . . Phosphoramidate--hexose phosphotransferase (2.7.1.62)
- 207/01063 . . Polyphosphate--glucose phosphotransferase (2.7.1.63)
- 207/01064 . . Inositol 3-kinase (2.7.1.64)
- 207/01065 . . Scyllo-inosamine 4-kinase (2.7.1.65)
- 207/01066 . . Undecaprenol kinase (2.7.1.66)
- 207/01067 . . 1-Phosphatidylinositol 4-kinase (2.7.1.67)
- 207/01068 . . 1-Phosphatidylinositol-4-phosphate 5-kinase (2.7.1.68)
- 207/01069 . . Protein-Npi-phosphohistidine-sugar phosphotransferase (2.7.1.69), i.e. sucrose phosphotransferase system II
- 207/01071 . . Shikimate kinase (2.7.1.71)
- 207/01072 . . Streptomycin 6-kinase (2.7.1.72)
- 207/01073 . . Inosine kinase (2.7.1.73)
- 207/01074 . . Deoxycytidine kinase (2.7.1.74)
- 207/01076 . . Deoxyadenosine kinase (2.7.1.76)
- 207/01077 . . Nucleoside phosphotransferase (2.7.1.77)
- 207/01078 . . Polynucleotide 5'-hydroxyl-kinase (2.7.1.78)
- 207/01079 . . Diphosphate--glycerol phosphotransferase (2.7.1.79)
- 207/0108 . . Diphosphate--serine phosphotransferase (2.7.1.80)
- 207/01081 . . Hydroxylysine kinase (2.7.1.81)
- 207/01082 . . Ethanolamine kinase (2.7.1.82)
- 207/01083 . . Pseudouridine kinase (2.7.1.83)
- 207/01084 . . Alkylglycerone kinase (2.7.1.84)
- 207/01085 . . Beta-glucoside kinase (2.7.1.85)
- 207/01086 . . NADH kinase (2.7.1.86)
- 207/01087 . . Streptomycin 3"-kinase (2.7.1.87)
- 207/01088 . . Dihydrostreptomycin-6-phosphate 3'-alpha-kinase (2.7.1.88)
- 207/01089 . . Thiamine kinase (2.7.1.89)
- 207/0109 . . Diphosphate--fructose-6-phosphate 1-phosphotransferase (2.7.1.90)
- 207/01091 . . Sphinganine kinase (2.7.1.91)
- 207/01092 . . 5-Dehydro-2-deoxygluconokinase (2.7.1.92)
- 207/01093 . . Alkylglycerol kinase (2.7.1.93)
- 207/01094 . . Acylglycerol kinase (2.7.1.94)
- 207/01095 . . Kanamycin kinase (2.7.1.95), i.e. neomycin-kanamycin phosphotransferase
- 207/011 . . S-Methyl-5-thioribose kinase (2.7.1.100)
- 207/01101 . . Tagatose kinase (2.7.1.101)
- 207/01102 . . Hamamelose kinase (2.7.1.102)
- 207/01103 . . Viomycin kinase (2.7.1.103)
- 207/01105 . . 6-Phosphofructo-2-kinase (2.7.1.105)
- 207/01106 . . Glucose-1,6-bisphosphate synthase (2.7.1.106)
- 207/01107 . . Diacylglycerol kinase (2.7.1.107)
- 207/01108 . . Dolichol kinase (2.7.1.108)
- 207/01112 . . Protein-tyrosine kinase (2.7.1.112) ([C12Y 207/10001](#), [C12Y 207/10002](#) take precedence)
- 207/01113 . . Deoxyguanosine kinase (2.7.1.113)
- 207/01114 . . AMP--thymidine kinase (2.7.1.114)
- 207/01118 . . ADP--thymidine kinase (2.7.1.118)
- 207/01119 . . Hygromycin-B 7"-O-kinase (2.7.1.119)
- 207/01121 . . Phosphoenolpyruvate--glycerone phosphotransferase (2.7.1.121)
- 207/01122 . . Xylitol kinase (2.7.1.122)
- 207/01127 . . Inositol-trisphosphate 3-kinase (2.7.1.127)
- 207/0113 . . Tetraacyldisaccharide 4'-kinase (2.7.1.130)
- 207/01134 . . Inositol-tetrakisphosphate 1-kinase (2.7.1.134)
- 207/01136 . . Macrolide 2'-kinase (2.7.1.136)
- 207/01137 . . Phosphatidylinositol 3-kinase (2.7.1.137)
- 207/01138 . . Ceramide kinase (2.7.1.138)
- 207/0114 . . Inositol-tetrakisphosphate 5-kinase (2.7.1.140)
- 207/01142 . . Glycerol-3-phosphate--glucose phosphotransferase (2.7.1.142)
- 207/01143 . . Diphosphate-purine nucleoside kinase (2.7.1.143)
- 207/01144 . . Tagatose-6-phosphate kinase (2.7.1.144)
- 207/01145 . . Deoxynucleoside kinase (2.7.1.145)
- 207/01146 . . ADP-specific phosphofructokinase (2.7.1.146)
- 207/01147 . . ADP-specific glucokinase (2.7.1.147)
- 207/01148 . . 4-(Cytidine 5'-diphospho)-2-C-methyl-D-erythritol kinase (2.7.1.148)
- 207/01149 . . 1-Phosphatidylinositol-5-phosphate 4-kinase (2.7.1.149)
- 207/0115 . . 1-Phosphatidylinositol-3-phosphate 5-kinase (2.7.1.150)
- 207/01151 . . Inositol-polyphosphate multikinase (2.7.1.151)
- 207/01153 . . Phosphatidylinositol-4,5-bisphosphate 3-kinase (2.7.1.153), i.e. phosphoinositide 3-kinase
- 207/01154 . . Phosphatidylinositol-4-phosphate 3-kinase (2.7.1.154)
- 207/01156 . . Adenosylcobinamide kinase (2.7.1.156)
- 207/01157 . . N-Acetylgalactosamine kinase (2.7.1.157)
- 207/01158 . . Inositol-pentakisphosphate 2-kinase (2.7.1.158)
- 207/01159 . . Inositol-1,3,4-trisphosphate 5/6-kinase (2.7.1.159)
- 207/0116 . . 2'-Phosphotransferase (2.7.1.160)
- 207/01161 . . CTP-dependent riboflavin kinase (2.7.1.161)
- 207/01162 . . N-Acetylhexosamine 1-kinase (2.7.1.162)
- 207/01163 . . Hygromycin B 4-O-kinase (2.7.1.163)
- 207/01164 . . O-Phosphoseryl-tRNA(Sec) kinase (2.7.1.164)
- 207/01165 . . Glycerate 2-kinase (2.7.1.165)
- 207/01166 . . 3-Deoxy-D-manno-octulosonic acid kinase (2.7.1.166)
- 207/01167 . . D-Glycero-beta-D-manno-heptose-7-phosphate kinase (2.7.1.167)
- 207/01168 . . D-Glycero-alpha-D-manno-heptose-7-phosphate kinase (2.7.1.168)
- 207/01169 . . Pantoate kinase (2.7.1.169)
- 207/0117 . . Anhydro-N-acetylmuramic acid kinase (2.7.1.170)
- 207/01171 . . Protein-fructosamine 3-kinase (2.7.1.171)
- 207/01172 . . Protein-ribulosamine 3-kinase (2.7.1.172)

- 207/01173 . . Nicotinate riboside kinase (2.7.1.173)  
 207/01174 . . Diacylglycerol kinase (CTP dependent) (2.7.1.174)  
 207/01175 . . Maltokinase (2.7.1.175)  
 207/01176 . . UDP-N-acetylglucosamine kinase (2.7.1.176)  
 207/01177 . . L-Threonine kinase (2.7.1.177)  
 207/02 . . Phosphotransferases with a carboxy group as acceptor (2.7.2)  
 207/02001 . . Acetate kinase (2.7.2.1)  
 207/02002 . . Carbamate kinase (2.7.2.2)  
 207/02003 . . Phosphoglycerate kinase (2.7.2.3)  
 207/02004 . . Aspartate kinase (2.7.2.4)  
 207/02006 . . Formate kinase (2.7.2.6)  
 207/02007 . . Butyrate kinase (2.7.2.7)  
 207/02008 . . Acetylglutamate kinase (2.7.2.8)  
 207/0201 . . Phosphoglycerate kinase (GTP) (2.7.2.10)  
 207/02011 . . Glutamate 5-kinase (2.7.2.11)  
 207/02012 . . Acetate kinase (diphosphate) (2.7.2.12)  
 207/02013 . . Glutamate 1-kinase (2.7.2.13)  
 207/02014 . . Branched-chain-fatty-acid kinase (2.7.2.14)  
 207/02015 . . Propionate kinase (2.7.2.15)  
 207/03 . . Phosphotransferases with a nitrogenous group as acceptor (2.7.3)  
 207/03001 . . Guanidinoacetate kinase (2.7.3.1)  
 207/03002 . . Creatine kinase (2.7.3.2)  
 207/03003 . . Arginine kinase (2.7.3.3)  
 207/03004 . . Taurocyamine kinase (2.7.3.4)  
 207/03005 . . Lombricine kinase (2.7.3.5)  
 207/03006 . . Hypotaurocyamine kinase (2.7.3.6)  
 207/03007 . . Opheline kinase (2.7.3.7)  
 207/03008 . . Ammonia kinase (2.7.3.8)  
 207/03009 . . Phosphoenolpyruvate-protein phosphotransferase (2.7.3.9)  
 207/0301 . . Agmatine kinase (2.7.3.10)  
 207/04 . . Phosphotransferases with a phosphate group as acceptor (2.7.4)  
 207/04001 . . Polyphosphate kinase (2.7.4.1)  
 207/04002 . . Phosphomevalonate kinase (2.7.4.2)  
 207/04003 . . Adenylate kinase (2.7.4.3)  
 207/04004 . . Nucleoside-phosphate kinase (2.7.4.4)  
 207/04006 . . Nucleoside-diphosphate kinase (2.7.4.6)  
 207/04007 . . Phosphomethylpyrimidine kinase (2.7.4.7)  
 207/04008 . . Guanylate kinase (2.7.4.8)  
 207/04009 . . dTMP kinase (2.7.4.9)  
 207/0401 . . Nucleoside-triphosphate--adenylate kinase (2.7.4.10)  
 207/04011 . . (Deoxy)adenylate kinase (2.7.4.11)  
 207/04012 . . T(2)-Induced deoxynucleotide kinase (2.7.4.12)  
 207/04013 . . (Deoxy)nucleoside-phosphate kinase (2.7.4.13)  
 207/04014 . . UMP/CMP kinase (2.7.4.14), i.e. uridine monophosphate kinase  
 207/04015 . . Thiamine-diphosphate kinase (2.7.4.15)  
 207/04016 . . Thiamine-phosphate kinase (2.7.4.16)  
 207/04017 . . 3-Phosphoglyceroyl-phosphate--polyphosphate phosphotransferase (2.7.4.17)  
 207/04018 . . Farnesyl-diphosphate kinase (2.7.4.18)  
 207/04019 . . 5-Methyldeoxycytidine-5'-phosphate kinase (2.7.4.19)  
 207/0402 . . Dolichyl-diphosphate--polyphosphate phosphotransferase (2.7.4.20)  
 207/04021 . . Inositol-hexakisphosphate kinase (2.7.4.21)  
 207/04022 . . UMP kinase (2.7.4.22)  
 207/04023 . . Ribose 1,5-bisphosphate phosphokinase (2.7.4.23)  
 207/04024 . . Diphosphoinositol-pentakisphosphate kinase (2.7.4.24)  
 207/04025 . . (d)CMP kinase (2.7.4.25)  
 207/04026 . . Isopentenyl phosphate kinase (2.7.4.26)  
 207/04027 . . [Pyruvate, phosphate dikinase]-phosphate phosphotransferase (2.7.4.27)  
 207/04028 . . [Pyruvate, water dikinase]-phosphate phosphotransferase (2.7.4.28)  
 207/06 . . Diphosphotransferases (2.7.6)  
 207/06001 . . Ribose-phosphate diphosphokinase (2.7.6.1)  
 207/06002 . . Thiamine diphosphokinase (2.7.6.2)  
 207/06003 . . 2-Amino-4-hydroxy-6-hydroxymethylidihydropteridine diphosphokinase (2.7.6.3)  
 207/06004 . . Nucleotide diphosphokinase (2.7.6.4)  
 207/06005 . . GTP diphosphokinase (2.7.6.5)  
 207/07 . . Nucleotidyltransferases (2.7.7)  
 207/07001 . . Nicotinamide-nucleotide adenyltransferase (2.7.7.1)  
 207/07002 . . FAD synthetase (2.7.7.2)  
 207/07003 . . Pantetheine-phosphate adenyltransferase (2.7.7.3)  
 207/07004 . . Sulfate adenyltransferase (2.7.7.4)  
 207/07005 . . Sulfate adenyltransferase (ADP) (2.7.7.5)  
 207/07006 . . DNA-directed RNA polymerase (2.7.7.6)  
 207/07007 . . DNA-directed DNA polymerase (2.7.7.7), i.e. DNA replicase  
 207/07008 . . Polyribonucleotide nucleotidyltransferase (2.7.7.8), i.e. polynucleotide phosphorylase  
 207/07009 . . UTP-glucose-1-phosphate uridylyltransferase (2.7.7.9), i.e. UDP-glucose-pyrophosphorylase  
 207/0701 . . UTP--hexose-1-phosphate uridylyltransferase (2.7.7.10)  
 207/07011 . . UTP--xylose-1-phosphate uridylyltransferase (2.7.7.11)  
 207/07012 . . UDP-glucose--hexose-1-phosphate uridylyltransferase (2.7.7.12)  
 207/07013 . . Mannose-1-phosphate guanylyltransferase (2.7.7.13)  
 207/07014 . . Ethanolamine-phosphate cytidyltransferase (2.7.7.14)  
 207/07015 . . Choline-phosphate cytidyltransferase (2.7.7.15)  
 207/07018 . . Nicotinate-nucleotide adenyltransferase (2.7.7.18)  
 207/07019 . . Polynucleotide adenyltransferase (2.7.7.19)  
 207/07022 . . Mannose-1-phosphate guanylyltransferase (GDP) (2.7.7.22)  
 207/07023 . . UDP-N-acetylglucosamine diphosphorylase (2.7.7.23)  
 207/07024 . . Glucose-1-phosphate thymidyltransferase (2.7.7.24)  
 207/07027 . . Glucose-1-phosphate adenyltransferase (2.7.7.27), i.e. ADP-glucose pyrophosphorylase  
 207/07028 . . Nucleoside-triphosphate-aldose-1-phosphate nucleotidyltransferase (2.7.7.28)  
 207/0703 . . Fucose-1-phosphate guanylyltransferase (2.7.7.30)  
 207/07031 . . DNA nucleotidylexotransferase (2.7.7.31), i.e. terminal deoxynucleotidyl transferase  
 207/07032 . . Galactose-1-phosphate thymidyltransferase (2.7.7.32)

- 207/07033 . . Glucose-1-phosphate cytidyltransferase (2.7.7.33)
- 207/07034 . . Glucose-1-phosphate guanylyltransferase (2.7.7.34)
- 207/07035 . . Ribose-5-phosphate adenylyltransferase (2.7.7.35)
- 207/07036 . . Aldose-1-phosphate adenylyltransferase (2.7.7.36)
- 207/07037 . . Aldose-1-phosphate nucleotidyltransferase (2.7.7.37)
- 207/07038 . . 3-Deoxy-manno-octulosonate cytidyltransferase (2.7.7.38)
- 207/07039 . . Glycerol-3-phosphate cytidyltransferase (2.7.7.39)
- 207/0704 . . D-Ribitol-5-phosphate cytidyltransferase (2.7.7.40)
- 207/07041 . . Phosphatidate cytidyltransferase (2.7.7.41), i.e. CDP-diacylglycerol synthase
- 207/07042 . . [Glutamate--ammonia-ligase] adenylyltransferase (2.7.7.42)
- 207/07043 . . N-Acylneuraminate cytidyltransferase (2.7.7.43)
- 207/07044 . . Glucuronate-1-phosphate uridylyltransferase (2.7.7.44)
- 207/07045 . . Guanosine-triphosphate guanylyltransferase (2.7.7.45)
- 207/07046 . . Gentamicin 2"-nucleotidyltransferase (2.7.7.46)
- 207/07047 . . Streptomycin 3"-adenylyltransferase (2.7.7.47)
- 207/07048 . . RNA-directed RNA polymerase (2.7.7.48), i.e. RNA replicase
- 207/07049 . . RNA-directed DNA polymerase (2.7.7.49), i.e. telomerase or reverse-transcriptase
- 207/0705 . . mRNA guanylyltransferase (2.7.7.50)
- 207/07051 . . Adenylylsulfate--ammonia adenylyltransferase (2.7.7.51)
- 207/07052 . . RNA uridylyltransferase (2.7.7.52)
- 207/07053 . . ATP adenylyltransferase (2.7.7.53)
- 207/07054 . . Phenylalanine adenylyltransferase (2.7.7.54)
- 207/07055 . . Anthranilate adenylyltransferase (2.7.7.55)
- 207/07056 . . tRNA nucleotidyltransferase (2.7.7.56)
- 207/07057 . . N-Methylphosphoethanolamine cytidyltransferase (2.7.7.57)
- 207/07058 . . (2,3-Dihydroxybenzoyl)adenylate synthase (2.7.7.58)
- 207/07059 . . [Protein-PII] uridylyltransferase (2.7.7.59)
- 207/0706 . . 2-C-Methyl-D-erythritol 4-phosphate cytidyltransferase (2.7.7.60)
- 207/07061 . . Citrate lyase holo-[acyl-carrier-protein] synthase (2.7.7.61)
- 207/07062 . . Adenosylcobinamide-phosphate guanylyltransferase (2.7.7.62)
- 207/07063 . . Lipoate--protein ligase (2.7.7.63)
- 207/07064 . . UTP-monosaccharide-1-phosphate uridylyltransferase (2.7.7.64)
- 207/07065 . . Diguanylate cyclase (2.7.7.65)
- 207/07066 . . Malonate decarboxylase holo-[acyl-carrier-protein] synthase (2.7.7.66)
- 207/07067 . . CDP-archaeol synthase (2.7.7.67)
- 207/07068 . . 2-Phospho-L-lactate guanylyltransferase (2.7.7.68)
- 207/07069 . . GDP-L-galactose phosphorylase (2.7.7.69)
- 207/0707 . . D-Glycero-beta-D-manno-heptose 1-phosphate adenylyltransferase (2.7.7.70)
- 207/07071 . . D-Glycero-alpha-D-manno-heptose 1-phosphate guanylyltransferase (2.7.7.71)
- 207/07072 . . CCA tRNA nucleotidyltransferase (2.7.7.72)
- 207/07073 . . Sulfur carrier protein ThiS adenylyltransferase (2.7.7.73)
- 207/07074 . . 1L-Myo-inositol 1-phosphate cytidyltransferase (2.7.7.74)
- 207/07075 . . Molybdopterin adenylyltransferase (2.7.7.75)
- 207/07076 . . Molybdenum cofactor cytidyltransferase (2.7.7.76)
- 207/07077 . . Molybdenum cofactor guanylyltransferase (2.7.7.77)
- 207/07078 . . GDP-D-glucose phosphorylase (2.7.7.78)
- 207/07079 . . tRNA(His) guanylyltransferase (2.7.7.79)
- 207/0708 . . Molybdopterin-synthase adenylyltransferase (2.7.7.80)
- 207/07081 . . Pseudaminic acid cytidyltransferase (2.7.7.81)
- 207/07082 . . CMP-N,N'-diacetyllegionaminic acid synthase (2.7.7.82)
- 207/07083 . . UDP-N-acetylgalactosamine diphosphorylase (2.7.7.83)
- 207/08 . . Transferases for other substituted phosphate groups (2.7.8)
- 207/08001 . . Ethanolaminephosphotransferase (2.7.8.1)
- 207/08002 . . Diacylglycerol cholinephosphotransferase (2.7.8.2)
- 207/08003 . . Ceramide cholinephosphotransferase (2.7.8.3)
- 207/08004 . . Serine-phosphoethanolamine synthase (2.7.8.4)
- 207/08005 . . CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase (2.7.8.5)
- 207/08006 . . Undecaprenyl-phosphate galactose phosphotransferase (2.7.8.6)
- 207/08007 . . Holo-[acyl-carrier-protein] synthase (2.7.8.7)
- 207/08008 . . CDP-diacylglycerol--serine O-phosphatidyltransferase (2.7.8.8)
- 207/08009 . . Phosphomannan mannosephosphotransferase (2.7.8.9)
- 207/0801 . . Sphingosine cholinephosphotransferase (2.7.8.10)
- 207/08011 . . CDP-diacylglycerol--inositol 3-phosphatidyltransferase (2.7.8.11)
- 207/08012 . . CDP-glycerol glycerophosphotransferase (2.7.8.12)
- 207/08013 . . Phospho-N-acetylmuramoyl-pentapeptide-transferase (2.7.8.13)
- 207/08014 . . CDP-ribitol ribitolphosphotransferase (2.7.8.14)
- 207/08015 . . UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase (2.7.8.15)
- 207/08017 . . UDP-N-acetylglucosamine--lysosomal-enzyme N-acetylglucosaminephosphotransferase (2.7.8.17)
- 207/08018 . . UDP-galactose--UDP-N-acetylglucosamine galactose phosphotransferase (2.7.8.18)
- 207/08019 . . UDP-glucose--glycoprotein glucose phosphotransferase (2.7.8.19)
- 207/0802 . . Phosphatidylglycerol--membrane-oligosaccharide glycerophosphotransferase (2.7.8.20)
- 207/08021 . . Membrane-oligosaccharide glycerophosphotransferase (2.7.8.21)
- 207/08022 . . 1-Alkenyl-2-acylglycerol choline phosphotransferase (2.7.8.22)
- 207/08023 . . Carboxyvinyl-carboxyphosphonate phosphorylmutase (2.7.8.23)
- 207/08024 . . Phosphatidylcholine synthase (2.7.8.24)

- 207/08025 . . Triphosphoribosyl-dephospho-CoA synthase (2.7.8.25)
- 207/08026 . . Adenosylcobinamide-GDP ribazoletransferase (2.7.8.26)
- 207/08027 . . Sphingomyelin synthase (2.7.8.27)
- 207/08028 . . 2-Phospho-L-lactate transferase (2.7.8.28)
- 207/08029 . . L-Serine-phosphatidylethanolamine phosphatidyltransferase (2.7.8.29)
- 207/0803 . . Undecaprenyl-phosphate 4-deoxy-4-formamido-L-arabinose transferase (2.7.8.30)
- 207/08031 . . Undecaprenyl-phosphate glucose phosphotransferase (2.7.8.31)
- 207/08032 . . 3-O-Alpha-D-mannopyranosyl-alpha-D-mannopyranose xylosylphosphotransferase (2.7.8.32)
- 207/08033 . . UDP-GlcNAc:undecaprenyl-phosphate GlcNAc-1-phosphate transferase (2.7.8.33)
- 207/08034 . . CDP-L-myo-inositol myo-inositolphosphotransferase (2.7.8.34)
- 207/08035 . . UDP-N-acetylglucosamine—decaprenyl-phosphate N-acetylglucosaminephosphotransferase (2.7.8.35)
- 207/08036 . . Undecaprenyl phosphate N,N'-diacetylbacillosamine 1-phosphate transferase (2.7.8.36)
- 207/08037 . . Alpha-D-ribose 1-methylphosphonate 5-triphosphate synthase (2.7.8.37)
- 207/09 . . Phosphotransferases with paired acceptors (2.7.9)
- 207/09001 . . Pyruvate, phosphate dikinase (2.7.9.1)
- 207/09002 . . Pyruvate, water dikinase (2.7.9.2)
- 207/09003 . . Selenide, water dikinase (2.7.9.3), i.e. selenophosphate-synthase
- 207/09004 . . Alpha-glucan, water dikinase (2.7.9.4)
- 207/09005 . . Phosphoglucan, water dikinase (2.7.9.5)
- 207/10 . . Protein-tyrosine kinases (2.7.10)
- 207/10001 . . Receptor protein-tyrosine kinase (2.7.10.1)
- 207/10002 . . Non-specific protein-tyrosine kinase (2.7.10.2), i.e. spleen tyrosine kinase
- 207/11 . . Protein-serine/threonine kinases (2.7.11)
- 207/11001 . . Non-specific serine/threonine protein kinase (2.7.11.1), i.e. casein kinase or checkpoint kinase
- 207/11002 . . [Pyruvate dehydrogenase (acetyl-transferring)] kinase (2.7.11.2)
- 207/11003 . . Dephospho-[reductase kinase] kinase (2.7.11.3)
- 207/11004 . . [3-Methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] kinase (2.7.11.4)
- 207/11005 . . [Isocitrate dehydrogenase (NADP+)] kinase (2.7.11.5)
- 207/11006 . . [Tyrosine 3-monooxygenase] kinase (2.7.11.6)
- 207/11007 . . [Myosin-heavy-chain] kinase (2.7.11.7)
- 207/11008 . . Fas-activated serine/threonine kinase (2.7.11.8)
- 207/11009 . . Goodpasture-antigen-binding protein kinase (2.7.11.9)
- 207/1101 . . IkappaB kinase (2.7.11.10)
- 207/11011 . . cAMP-dependent protein kinase (2.7.11.11)
- 207/11012 . . cGMP-dependent protein kinase (2.7.11.12)
- 207/11013 . . Protein kinase C (2.7.11.13)
- 207/11014 . . Rhodopsin kinase (2.7.11.14)
- 207/11015 . . [Beta-adrenergic-receptor] kinase (2.7.11.15)
- 207/11016 . . G-Protein-coupled receptor kinase (2.7.11.16)
- 207/11017 . . Ca<sup>2+</sup>/Calmodulin-dependent protein kinase (2.7.11.17)
- 207/11018 . . Myosin-light-chain kinase (2.7.11.18)
- 207/11019 . . Phosphorylase kinase (2.7.11.19)
- 207/1102 . . Elongation factor 2 kinase (2.7.11.20), i.e. eEF-2K
- 207/11021 . . Polo kinase (2.7.11.21)
- 207/11022 . . Cyclin-dependent kinase (2.7.11.22)
- 207/11023 . . [RNA-polymerase-subunit] kinase (2.7.11.23)
- 207/11024 . . Mitogen-activated protein kinase (2.7.11.24), i.e. MAPK or MAPK2 or c-Jun N-terminal kinase
- 207/11025 . . Mitogen-activated protein kinase kinase kinase (2.7.11.25), i.e. MAPKKK or MAP3K
- 207/11026 . . Tau-protein kinase (2.7.11.26)
- 207/11027 . . [Acetyl-CoA carboxylase] kinase (2.7.11.27)
- 207/11028 . . Tropomyosin kinase (2.7.11.28)
- 207/11029 . . [Low-density-lipoprotein receptor] kinase (2.7.11.29)
- 207/1103 . . Receptor protein serine/threonine kinase (2.7.11.30)
- 207/11031 . . [Hydroxymethylglutaryl-CoA reductase (NADPH)] kinase (2.7.11.31)
- 207/11032 . . [Pyruvate, phosphate dikinase] kinase (2.7.11.32)
- 207/11033 . . [Pyruvate, water dikinase] kinase (2.7.11.33)
- 207/12 . . Dual-specificity kinases (2.7.12)
- 207/12001 . . Dual-specificity kinase (2.7.12.1)
- 207/12002 . . Mitogen-activated protein kinase kinase (2.7.12.2), i.e. MAPKK or MEK1 or MEK2
- 207/13 . . Protein-histidine kinases (2.7.13)
- 207/13001 . . Protein-histidine pros-kinase (2.7.13.1)
- 207/13002 . . Protein-histidine tele-kinase (2.7.13.2)
- 207/13003 . . Histidine kinase (2.7.13.3)
- 207/99 . . Other protein kinases (2.7.99)
- 207/99001 . . Triphosphate--protein phosphotransferase (2.7.99.1)
- 208/00      Transferases transferring sulfur-containing groups (2.8)**
- 208/01 . . Sulfurtransferases (2.8.1)
- 208/01001 . . Thiosulfate sulfurtransferase (2.8.1.1)
- 208/01002 . . 3-Mercaptopyruvate sulfurtransferase (2.8.1.2)
- 208/01003 . . Thiosulfate--thiol sulfurtransferase (2.8.1.3)
- 208/01004 . . tRNA sulfurtransferase (2.8.1.4)
- 208/01005 . . Thiosulfate--dithiol sulfurtransferase (2.8.1.5)
- 208/01006 . . Biotin synthase (2.8.1.6)
- 208/01007 . . Cysteine desulfurase (2.8.1.7)
- 208/01008 . . Lipoyl synthase (2.8.1.8)
- 208/01009 . . Molybdenum cofactor sulfurtransferase (2.8.1.9)
- 208/0101 . . Thiazole synthase (2.8.1.10)
- 208/01011 . . Molybdopterin synthase sulfurtransferase (2.8.1.11)
- 208/01012 . . Molybdopterin synthase (2.8.1.12)
- 208/02 . . Sulfotransferases (2.8.2)
- 208/02001 . . Aryl sulfotransferase (2.8.2.1)
- 208/02002 . . Alcohol sulfotransferase (2.8.2.2)
- 208/02003 . . Amine sulfotransferase (2.8.2.3)
- 208/02004 . . Estrone sulfotransferase (2.8.2.4)
- 208/02005 . . Chondroitin 4-sulfotransferase (2.8.2.5)
- 208/02006 . . Choline sulfotransferase (2.8.2.6)
- 208/02007 . . UDP-N-acetylgalactosamine-4-sulfate sulfotransferase (2.8.2.7)
- 208/02008 . . [Heparan sulfate]-glucosamine N-sulfotransferase (2.8.2.8)
- 208/02009 . . Tyrosine-ester sulfotransferase (2.8.2.9)
- 208/0201 . . Renilla-luciferin sulfotransferase (2.8.2.10)
- 208/02011 . . Galactosylceramide sulfotransferase (2.8.2.11)

- 208/02013 . . Psychosine sulfotransferase (2.8.2.13)  
 208/02014 . . Bile-salt sulfotransferase (2.8.2.14)  
 208/02015 . . Steroid sulfotransferase (2.8.2.15)  
 208/02016 . . Thiol sulfotransferase (2.8.2.16)  
 208/02017 . . Chondroitin 6-sulfotransferase (2.8.2.17)  
 208/02018 . . Cortisol sulfotransferase (2.8.2.18)  
 208/02019 . . Triglycosylalkylacylglycerol sulfotransferase (2.8.2.19)  
 208/0202 . . Protein-tyrosine sulfotransferase (2.8.2.20)  
 208/02021 . . Keratan sulfotransferase (2.8.2.21)  
 208/02022 . . Aryl-sulfate sulfotransferase (2.8.2.22)  
 208/02023 . . [Heparan sulfate]-glucosamine 3-sulfotransferase 1 (2.8.2.23)  
 208/02024 . . Desulfoglucosinolate sulfotransferase (2.8.2.24)  
 208/02025 . . Flavonol 3-sulfotransferase (2.8.2.25)  
 208/02026 . . Quercetin-3-sulfate 3'-sulfotransferase (2.8.2.26)  
 208/02027 . . Quercetin-3-sulfate 4'-sulfotransferase (2.8.2.27)  
 208/02028 . . Quercetin-3,3'-bissulfate 7-sulfotransferase (2.8.2.28)  
 208/02029 . . [Heparan sulfate]-glucosamine 3-sulfotransferase 2 (2.8.2.29)  
 208/0203 . . [Heparan sulfate]-glucosamine 3-sulfotransferase 3 (2.8.2.30)  
 208/02031 . . Petromyzonol sulfotransferase (2.8.2.31)  
 208/02032 . . Scymnol sulfotransferase (2.8.2.32)  
 208/02033 . . N-Acetylgalactosamine 4-sulfate 6-O-sulfotransferase (2.8.2.33)  
 208/02034 . . Glycochenodeoxycholate sulfotransferase (2.8.2.34)  
 208/02035 . . Dermatan 4-sulfotransferase (2.8.2.35)  
 208/03 . . CoA-transferases (2.8.3)  
 208/03001 . . Propionate CoA-transferase (2.8.3.1)  
 208/03002 . . Oxalate CoA-transferase (2.8.3.2)  
 208/03003 . . Malonate CoA-transferase (2.8.3.3)  
 208/03005 . . 3-Oxoacid CoA-transferase (2.8.3.5)  
 208/03006 . . 3-Oxoadipate CoA-transferase (2.8.3.6)  
 208/03007 . . Succinate--citramalate CoA-transferase (2.8.3.7)  
 208/03008 . . Acetate CoA-transferase (2.8.3.8)  
 208/03009 . . Butyrate--acetoacetate CoA-transferase (2.8.3.9)  
 208/0301 . . Citrate CoA-transferase (2.8.3.10)  
 208/03011 . . Citramalate CoA-transferase (2.8.3.11)  
 208/03012 . . Glutaconate CoA-transferase (2.8.3.12)  
 208/03013 . . Succinate--hydroxymethylglutarate CoA-transferase (2.8.3.13)  
 208/03014 . . 5-Hydroxypentanoate CoA-transferase (2.8.3.14)  
 208/03015 . . Succinyl-CoA:(R)-benzylsuccinate CoA-transferase (2.8.3.15)  
 208/03016 . . Formyl-CoA transferase (2.8.3.16)  
 208/03017 . . Cinnamoyl-CoA:phenyllactate CoA-transferase (2.8.3.17)  
 208/04 . . transferring alkylthio groups (2.8.4)  
 208/04001 . . Coenzyme-B sulfoethylthiotransferase (2.8.4.1)  
 208/04002 . . Arsenate-mycothioliol transferase (2.8.4.2)
- 209/00    Transferases transferring selenium-containing groups (2.9)**  
 209/01 . . transferring selenium-containing groups (2.9.1)  
 209/01001 . . L-Seryl-tRNA(Sec) selenium transferase (2.9.1.1)  
 209/01002 . . O-Phospho-L-seryl-tRNA(Sec):L-selenocysteinyl-tRNA synthase (2.9.1.2)
- 210/00    Transferases transferring molybdenum- or tungsten-containing groups (2.10)**  
 210/01 . . Molybdenumtransferases or tungstenttransferases with sulfide groups as acceptors (2.10.1)  
 210/01001 . . Molybdopterin molybdotransferase (2.10.1.1)
- 301/00    Hydrolases acting on ester bonds (3.1)**  
 301/01 . . Carboxylic ester hydrolases (3.1.1)  
 301/01001 . . Carboxylesterase (3.1.1.1)  
 301/01002 . . Arylesterase (3.1.1.2)  
 301/01003 . . Triacylglycerol lipase (3.1.1.3)  
 301/01004 . . Phospholipase A2 (3.1.1.4)  
 301/01005 . . Lysophospholipase (3.1.1.5)  
 301/01006 . . Acetyesterase (3.1.1.6)  
 301/01007 . . Acetylcholinesterase (3.1.1.7)  
 301/01008 . . Cholinesterase (3.1.1.8), i.e. butyrylcholinesterase  
 301/0101 . . Tropinesterase (3.1.1.10)  
 301/01011 . . Pectinesterase (3.1.1.11)  
 301/01013 . . Sterol esterase (3.1.1.13)  
 301/01014 . . Chlorophyllase (3.1.1.14)  
 301/01015 . . L-Arabinonolactonase (3.1.1.15)  
 301/01016 . . 4-Carboxymethyl-4-hydroxyisocrotonolactonase (3.1.1.16) ([C12Y 301/01024](#), [C12Y 503/03004](#) take precedence)  
 301/01017 . . Gluconolactonase (3.1.1.17)  
 301/01019 . . Uronolactonase (3.1.1.19)  
 301/0102 . . Tannase (3.1.1.20)  
 301/01021 . . Retinyl-palmitate esterase (3.1.1.21) ([C12Y 301/01001](#), [C12Y 301/01003](#) take precedence)  
 301/01022 . . Hydroxybutyrate-dimer hydrolase (3.1.1.22)  
 301/01023 . . Acylglycerol lipase (3.1.1.23)  
 301/01024 . . 3-Oxoadipate enol-lactonase (3.1.1.24)  
 301/01025 . . 1,4-Lactonase (3.1.1.25)  
 301/01026 . . Galactolipase (3.1.1.26)  
 301/01027 . . 4-Pyridoxolactonase (3.1.1.27)  
 301/01028 . . Acylcarnitine hydrolase (3.1.1.28)  
 301/01029 . . Aminoacyl-tRNA hydrolase (3.1.1.29)  
 301/0103 . . D-Arabinonolactonase (3.1.1.30)  
 301/01031 . . 6-Phosphogluconolactonase (3.1.1.31)  
 301/01032 . . Phospholipase A1 (3.1.1.32)  
 301/01033 . . 6-Acetylglucose deacetylase (3.1.1.33)  
 301/01034 . . Lipoprotein lipase (3.1.1.34)  
 301/01035 . . Dihydrocoumarin hydrolase (3.1.1.35)  
 301/01036 . . Limonin-D-ring-lactonase (3.1.1.36)  
 301/01037 . . Steroid-lactonase (3.1.1.37)  
 301/01038 . . Triacetate-lactonase (3.1.1.38)  
 301/01039 . . Actinomycin lactonase (3.1.1.39)  
 301/0104 . . Orsellinate-depside hydrolase (3.1.1.40)  
 301/01041 . . Cephalosporin-C deacetylase (3.1.1.41)  
 301/01042 . . Chlorogenate hydrolase (3.1.1.42)  
 301/01043 . . Alpha-amino-acid esterase (3.1.1.43)  
 301/01044 . . 4-Methyloxaloacetate esterase (3.1.1.44)  
 301/01045 . . Carboxymethylenebutenolidase (3.1.1.45)  
 301/01046 . . Deoxylimonate A-ring-lactonase (3.1.1.46)  
 301/01047 . . 1-Alkyl-2-acetyl-glycerophosphocholine esterase (3.1.1.47), i.e. platelet-activating factor acetylhydrolase  
 301/01048 . . Fusarinine-C ornithinesterase (3.1.1.48)  
 301/01049 . . Sinapine esterase (3.1.1.49)  
 301/0105 . . Wax-ester hydrolase (3.1.1.50)  
 301/01051 . . Phorbol-diester hydrolase (3.1.1.51)  
 301/01052 . . Phosphatidylinositol deacylase (3.1.1.52)

- 301/01053 . . Sialate O-acetyltransferase (3.1.1.53)  
301/01054 . . Acetoxybutynylbithiophene deacetylase (3.1.1.54)  
301/01055 . . Acetylsalicylate deacetylase (3.1.1.55)  
301/01056 . . Methylumbelliferyl-acetate deacetylase (3.1.1.56)  
301/01057 . . 2-Pyrone-4,6-dicarboxylate lactonase (3.1.1.57)  
301/01058 . . N-Acetylgalactosaminoglycan deacetylase (3.1.1.58)  
301/01059 . . Juvenile-hormone esterase (3.1.1.59)  
301/0106 . . Bis(2-ethylhexyl)phthalate esterase (3.1.1.60)  
301/01061 . . Protein-glutamate methyltransferase (3.1.1.61)  
301/01063 . . 11-Cis-retinyl-palmitate hydrolase (3.1.1.63)  
301/01064 . . Retinoid isomerohydrolase (3.1.1.64)  
301/01065 . . L-Rhamnono-1,4-lactonase (3.1.1.65)  
301/01066 . . 5-(3,4-Diacetoxybut-1-ynyl)-2,2'-bithiophene deacetylase (3.1.1.66)  
301/01067 . . Fatty-acyl-ethyl-ester synthase (3.1.1.67)  
301/01068 . . Xylono-1,4-lactonase (3.1.1.68)  
301/0107 . . Cetraxate benzylesterase (3.1.1.70)  
301/01071 . . Acetylalkylglycerol acetylhydrolase (3.1.1.71)  
301/01072 . . Acetylxyylan esterase (3.1.1.72)  
301/01073 . . Feruloyl esterase (3.1.1.73)  
301/01074 . . Cutinase (3.1.1.74)  
301/01075 . . Poly(3-hydroxybutyrate) depolymerase (3.1.1.75)  
301/01076 . . Poly(3-hydroxyoctanoate) depolymerase (3.1.1.76)  
301/01077 . . Acyloxyacyl hydrolase (3.1.1.77)  
301/01078 . . Polyneuridine-aldehyde esterase (3.1.1.78)  
301/01079 . . Hormone-sensitive lipase (3.1.1.79)  
301/0108 . . Acetylalaline esterase (3.1.1.80)  
301/01081 . . Quorum-quenching N-acyl-homoserine lactonase (3.1.1.81)  
301/01082 . . Pheophorbidease (3.1.1.82)  
301/01083 . . Monoterpene epsilon-lactone hydrolase (3.1.1.83)  
301/01084 . . Cocaine esterase (3.1.1.84)  
301/01085 . . Pimelyl-[acyl-carrier protein] methyl ester esterase (3.1.1.85)  
301/01086 . . Rhamnogalacturonan acetyltransferase (3.1.1.86)  
301/01087 . . Fumonisin B1 esterase (3.1.1.87)  
301/01088 . . Pyrethroid hydrolase (3.1.1.88)  
301/01089 . . Protein phosphatase methyltransferase-1 (3.1.1.89)  
301/0109 . . All-trans-retinyl ester 13-cis isomerohydrolase (3.1.1.90)  
301/01091 . . 2-Oxo-3-(5-oxofuran-2-ylidene)propanoate lactonase (3.1.1.91)  
301/01092 . . 4-Sulfomuconolactone hydrolase (3.1.1.92)  
301/01093 . . Mycophenolic acid acyl-glucuronide esterase (3.1.1.93)  
301/02 . . Thioester hydrolases (3.1.2)  
301/02001 . . Acetyl-CoA hydrolase (3.1.2.1)  
301/02002 . . Palmitoyl-CoA hydrolase (3.1.2.2)  
301/02003 . . Succinyl-CoA hydrolase (3.1.2.3)  
301/02004 . . 3-Hydroxyisobutyryl-CoA hydrolase (3.1.2.4)  
301/02005 . . Hydroxymethylglutaryl-CoA hydrolase (3.1.2.5)  
301/02006 . . Hydroxyacylglutathione hydrolase (3.1.2.6)  
301/02007 . . Glutathione thioesterase (3.1.2.7)  
301/0201 . . Formyl-CoA hydrolase (3.1.2.10)  
301/02011 . . Acetoacetyl-CoA hydrolase (3.1.2.11)  
301/02012 . . S-Formylglutathione hydrolase (3.1.2.12)  
301/02013 . . S-Succinylglutathione hydrolase (3.1.2.13)  
301/02014 . . Oleoyl-[acyl-carrier-protein] hydrolase (3.1.2.14), i.e. ACP-thioesterase  
301/02015 . . Ubiquitin thioesterase (3.1.2.15)  
301/02016 . . Citrate-lyase deacetylase (3.1.2.16)  
301/02017 . . (S)-Methylmalonyl-CoA hydrolase (3.1.2.17)  
301/02018 . . ADP-dependent short-chain-acyl-CoA hydrolase (3.1.2.18)  
301/02019 . . ADP-dependent medium-chain-acyl-CoA hydrolase (3.1.2.19)  
301/0202 . . Acyl-CoA hydrolase (3.1.2.20)  
301/02021 . . Dodecanoyl-[acyl-carrier-protein] hydrolase (3.1.2.21)  
301/02022 . . Palmitoyl-protein hydrolase (3.1.2.22)  
301/02023 . . 4-Hydroxybenzoyl-CoA thioesterase (3.1.2.23)  
301/02025 . . Phenylacetyl-CoA hydrolase (3.1.2.25)  
301/02026 . . Bile-acid-CoA hydrolase (3.1.2.26)  
301/02027 . . Choloyl-CoA hydrolase (3.1.2.27)  
301/02028 . . 1,4-Dihydroxy-2-naphthoyl-CoA hydrolase (3.1.2.28)  
301/02029 . . Fluoroacetyl-CoA thioesterase (3.1.2.29)  
301/03 . . Phosphoric monoester hydrolases (3.1.3)  
301/03001 . . Alkaline phosphatase (3.1.3.1)  
301/03002 . . Acid phosphatase (3.1.3.2)  
301/03003 . . Phosphoserine phosphatase (3.1.3.3)  
301/03004 . . Phosphatidate phosphatase (3.1.3.4)  
301/03005 . . 5'-Nucleotidase (3.1.3.5)  
301/03006 . . 3'-Nucleotidase (3.1.3.6)  
301/03007 . . 3'(2'),5'-Bisphosphate nucleotidase (3.1.3.7)  
301/03008 . . 3-Phytase (3.1.3.8)  
301/03009 . . Glucose-6-phosphatase (3.1.3.9)  
301/0301 . . Glucose-1-phosphatase (3.1.3.10)  
301/03011 . . Fructose-bisphosphatase (3.1.3.11)  
301/03012 . . Trehalose-phosphatase (3.1.3.12)  
301/03013 . . Bisphosphoglycerate phosphatase (3.1.3.13)  
301/03014 . . Methylphosphothioglycerate phosphatase (3.1.3.14)  
301/03015 . . Histidinol-phosphatase (3.1.3.15)  
301/03016 . . Phosphoprotein phosphatase (3.1.3.16), i.e. calcineurin  
301/03017 . . [Phosphorylase] phosphatase (3.1.3.17)  
301/03018 . . Phosphoglycolate phosphatase (3.1.3.18)  
301/03019 . . Glycerol-2-phosphatase (3.1.3.19)  
301/0302 . . Phosphoglycerate phosphatase (3.1.3.20)  
301/03021 . . Glycerol-1-phosphatase (3.1.3.21)  
301/03022 . . Mannitol-1-phosphatase (3.1.3.22)  
301/03023 . . Sugar-phosphatase (3.1.3.23)  
301/03024 . . Sucrose-phosphate phosphatase (3.1.3.24)  
301/03025 . . Inositol-phosphate phosphatase (3.1.3.25)  
301/03026 . . 4-Phytase (3.1.3.26), i.e. 6-phytase  
301/03027 . . Phosphatidylglycerophosphatase (3.1.3.27)  
301/03028 . . ADP-phosphoglycerate phosphatase (3.1.3.28)  
301/03029 . . N-Acylneuraminate-9-phosphatase (3.1.3.29)  
301/03031 . . Nucleotidase (3.1.3.31)  
301/03032 . . Polynucleotide 3'-phosphatase (3.1.3.32)  
301/03033 . . Polynucleotide 5'-phosphatase (3.1.3.33)  
301/03034 . . Deoxynucleotide 3'-phosphatase (3.1.3.34)  
301/03035 . . Thymidylate 5'-phosphatase (3.1.3.35)  
301/03036 . . Phosphoinositide 5-phosphatase (3.1.3.36)  
301/03037 . . Sedoheptulose-bisphosphatase (3.1.3.37)  
301/03038 . . 3-Phosphoglycerate phosphatase (3.1.3.38)  
301/03039 . . Streptomycin-6-phosphatase (3.1.3.39)  
301/0304 . . Guanidinodeoxy-scyllo-inositol-4-phosphatase (3.1.3.40)  
301/03041 . . 4-Nitrophenylphosphatase (3.1.3.41)

- 301/03042 . . [Glycogen-synthase-D] phosphatase (3.1.3.42)
- 301/03043 . . [Pyruvate dehydrogenase (acetyl-transferring)]-phosphatase (3.1.3.43)
- 301/03044 . . [Acetyl-CoA carboxylase]-phosphatase (3.1.3.44)
- 301/03045 . . 3-Deoxy-manno-octulosonate-8-phosphatase (3.1.3.45)
- 301/03046 . . Fructose-2,6-bisphosphate 2-phosphatase (3.1.3.46)
- 301/03047 . . [Hydroxymethylglutaryl-CoA reductase (NADPH)]-phosphatase (3.1.3.47)
- 301/03048 . . Protein-tyrosine-phosphatase (3.1.3.48)
- 301/03049 . . [Pyruvate kinase]-phosphatase (3.1.3.49)
- 301/0305 . . Sorbitol-6-phosphatase (3.1.3.50)
- 301/03051 . . Dolichyl-phosphatase (3.1.3.51)
- 301/03052 . . [3-Methyl-2-oxobutanoate dehydrogenase (2-methylpropanoyl-transferring)]-phosphatase (3.1.3.52)
- 301/03053 . . [Myosin-light-chain] phosphatase (3.1.3.53)
- 301/03054 . . Fructose-2,6-bisphosphate 6-phosphatase (3.1.3.54)
- 301/03055 . . Caldesmon-phosphatase (3.1.3.55)
- 301/03056 . . Inositol-polyphosphate 5-phosphatase (3.1.3.56)
- 301/03057 . . Inositol-1,4-bisphosphate 1-phosphatase (3.1.3.57)
- 301/03058 . . Sugar-terminal-phosphatase (3.1.3.58)
- 301/03059 . . Alkylacylglycerophosphatase (3.1.3.59)
- 301/0306 . . Phosphoenolpyruvate phosphatase (3.1.3.60)
- 301/03062 . . Multiple inositol-polyphosphate phosphatase (3.1.3.62)
- 301/03063 . . 2-Carboxy-D-arabinitol-1-phosphatase (3.1.3.63)
- 301/03064 . . Phosphatidylinositol-3-phosphatase (3.1.3.64)
- 301/03066 . . Phosphatidylinositol-3,4-bisphosphate 4-phosphatase (3.1.3.66)
- 301/03067 . . Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase (3.1.3.67)
- 301/03068 . . 2-Deoxyglucose-6-phosphatase (3.1.3.68)
- 301/03069 . . Glucosylglycerol 3-phosphatase (3.1.3.69)
- 301/0307 . . Mannosyl-3-phosphoglycerate phosphatase (3.1.3.70)
- 301/03071 . . 2-Phosphosulfolactate phosphatase (3.1.3.71)
- 301/03072 . . 5-Phytase (3.1.3.72)
- 301/03073 . . Adenosylcobalamin/alpha-ribazole phosphatase (3.1.3.73)
- 301/03074 . . Pyridoxal phosphatase (3.1.3.74)
- 301/03075 . . Phosphoethanolamine/phosphocholine phosphatase (3.1.3.75)
- 301/03076 . . Lipid-phosphate phosphatase (3.1.3.76)
- 301/03077 . . Acireductone synthase (3.1.3.77)
- 301/03078 . . Phosphatidylinositol-4,5-bisphosphate 4-phosphatase (3.1.3.78)
- 301/03079 . . Mannosylfructose-phosphate phosphatase (3.1.3.79)
- 301/0308 . . 2,3-Bisphosphoglycerate 3-phosphatase (3.1.3.80)
- 301/03081 . . Diacylglycerol diphosphate phosphatase (3.1.3.81)
- 301/03082 . . D-Glycero-beta-D-manno-heptose 1,7-bisphosphate 7-phosphatase (3.1.3.82)
- 301/03083 . . D-Glycero-alpha-D-manno-heptose-1,7-bisphosphate 7-phosphatase (3.1.3.83)
- 301/03084 . . ADP-ribose 1"-phosphate phosphatase (3.1.3.84)
- 301/03085 . . Glucosyl-3-phosphoglycerate phosphatase (3.1.3.85)
- 301/03086 . . Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase (3.1.3.86)
- 301/03087 . . 2-Hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase (3.1.3.87)
- 301/03088 . . 5"-Phosphoribostamycin phosphatase (3.1.3.88)
- 301/04 . . Phosphoric diester hydrolases (3.1.4)
- 301/04001 . . Phosphodiesterase I (3.1.4.1)
- 301/04002 . . Glycerophosphocholine phosphodiesterase (3.1.4.2)
- 301/04003 . . Phospholipase C (3.1.4.3)
- 301/04004 . . Phospholipase D (3.1.4.4)
- 301/04011 . . Phosphoinositide phospholipase C (3.1.4.11)
- 301/04012 . . Sphingomyelin phosphodiesterase (3.1.4.12)
- 301/04013 . . Serine-ethanolaminephosphate phosphodiesterase (3.1.4.13)
- 301/04014 . . [Acyl-carrier-protein] phosphodiesterase (3.1.4.14)
- 301/04015 . . Adenylyl-[glutamate--ammonia ligase] hydrolase (3.1.4.15)
- 301/04016 . . 2',3'-Cyclic-nucleotide 2'-phosphodiesterase (3.1.4.16)
- 301/04017 . . 3',5'-Cyclic-nucleotide phosphodiesterase (3.1.4.17)
- 301/04035 . . 3',5'-Cyclic-GMP phosphodiesterase (3.1.4.35)
- 301/04037 . . 2',3'-Cyclic-nucleotide 3'-phosphodiesterase (3.1.4.37)
- 301/04038 . . Glycerophosphocholine cholinephosphodiesterase (3.1.4.38)
- 301/04039 . . Alkylglycerophosphoethanolamine phosphodiesterase (3.1.4.39)
- 301/0404 . . CMP-N-acylneuraminate phosphodiesterase (3.1.4.40)
- 301/04041 . . Sphingomyelin phosphodiesterase D (3.1.4.41)
- 301/04042 . . Glycerol-1,2-cyclic-phosphate 2-phosphodiesterase (3.1.4.42)
- 301/04043 . . Glycerophosphoinositol inositolphosphodiesterase (3.1.4.43)
- 301/04044 . . Glycerophosphoinositol glycerophosphodiesterase (3.1.4.44)
- 301/04045 . . N-Acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase (3.1.4.45)
- 301/04046 . . Glycerophosphodiester phosphodiesterase (3.1.4.46)
- 301/04048 . . Dolichylphosphate-glucose phosphodiesterase (3.1.4.48)
- 301/04049 . . Dolichylphosphate-mannose phosphodiesterase (3.1.4.49)
- 301/0405 . . Glycosylphosphatidylinositol phospholipase D (3.1.4.50)
- 301/04051 . . Glucose-1-phospho-D-mannosylglycoprotein phosphodiesterase (3.1.4.51)
- 301/04052 . . Cyclic-guanylate-specific phosphodiesterase (3.1.4.52)
- 301/04053 . . 3',5'-Cyclic-AMP phosphodiesterase (3.1.4.53)
- 301/04054 . . N-Acetylphosphatidylethanolamine-hydrolyzing phospholipase D (3.1.4.54)
- 301/05 . . Triphosphoric monoester hydrolases (3.1.5)
- 301/05001 . . dGTPase (3.1.5.1)
- 301/06 . . Sulfuric ester hydrolases (3.1.6)
- 301/06001 . . Arylsulfatase (3.1.6.1)
- 301/06002 . . Steryl-sulfatase (3.1.6.2)
- 301/06003 . . Glycosulfatase (3.1.6.3)
- 301/06004 . . N-Acetylgalactosamine-6-sulfatase (3.1.6.4)

- 301/06006 . . Choline-sulfatase (3.1.6.6)  
 301/06007 . . Cellulose-polysulfatase (3.1.6.7)  
 301/06008 . . Cerebroside-sulfatase (3.1.6.8)  
 301/06009 . . Chondro-4-sulfatase (3.1.6.9)  
 301/0601 . . Chondro-6-sulfatase (3.1.6.10)  
 301/06011 . . Disulfoglucosamine-6-sulfatase (3.1.6.11)  
 301/06012 . . N-Acetylgalactosamine-4-sulfatase (3.1.6.12)  
 301/06013 . . Iduronate-2-sulfatase (3.1.6.13)  
 301/06014 . . N-Acetylglucosamine-6-sulfatase (3.1.6.14)  
 301/06015 . . N-Sulfoglucosamine-3-sulfatase (3.1.6.15)  
 301/06016 . . Monomethyl-sulfatase (3.1.6.16)  
 301/06017 . . D-Lactate-2-sulfatase (3.1.6.17)  
 301/06018 . . Glucuronate-2-sulfatase (3.1.6.18)  
 301/07 . . Diphosphoric monoester hydrolases (3.1.7)  
 301/07001 . . Prenyl-diphosphatase (3.1.7.1)  
 301/07002 . . Guanosine-3',5'-bis(diphosphate) 3'-diphosphatase (3.1.7.2)  
 301/07003 . . Monoterpenyl-diphosphatase (3.1.7.3)  
 301/07004 . . Sclareol cyclase (3.1.7.4)  
 301/07005 . . Geranylgeranyl diphosphate diphosphatase (3.1.7.5)  
 301/07006 . . Farnesyl diphosphatase (3.1.7.6)  
 301/07007 . . Drimenol cyclase (3.1.7.7)  
 301/07008 . . Tuberculosinol synthase (3.1.7.8)  
 301/07009 . . Isotuberculosinol synthase (3.1.7.9)  
 301/0701 . . (13E)-Labda-7,13-dien-15-ol synthase (3.1.7.10)  
 301/07011 . . Geranyl diphosphate diphosphatase (3.1.7.11)  
 301/08 . . Phosphoric triester hydrolases (3.1.8)  
 301/08001 . . Aryldialkylphosphatase (3.1.8.1), i.e. paraoxonase  
 301/08002 . . Diisopropyl-fluorophosphatase (3.1.8.2)  
 301/11 . . Exodeoxyribonucleases producing 5'-phosphomonoesters (3.1.11)  
 301/11001 . . Exodeoxyribonuclease I (3.1.11.1)  
 301/11002 . . Exodeoxyribonuclease III (3.1.11.2)  
 301/11003 . . Exodeoxyribonuclease (lambda-induced) (3.1.11.3)  
 301/11004 . . Exodeoxyribonuclease (phage SP3-induced) (3.1.11.4)  
 301/11005 . . Exodeoxyribonuclease V (3.1.11.5)  
 301/11006 . . Exodeoxyribonuclease VII (3.1.11.6)  
 301/13 . . Exoribonucleases producing 5'-phosphomonoesters (3.1.13)  
 301/13001 . . Exoribonuclease II (3.1.13.1)  
 301/13002 . . Exoribonuclease H (3.1.13.2)  
 301/13003 . . Oligonucleotidase (3.1.13.3)  
 301/13004 . . Poly(A)-specific ribonuclease (3.1.13.4)  
 301/13005 . . Ribonuclease D (3.1.13.5)  
 301/14 . . Exoribonucleases producing 3'-phosphomonoesters (3.1.14)  
 301/14001 . . Yeast ribonuclease (3.1.14.1)  
 301/15 . . Exonucleases active with either ribo- or deoxyribonucleic acids and producing 5'-phosphomonoesters (3.1.15)  
 301/15001 . . Venom exonuclease (3.1.15.1)  
 301/16 . . Exonucleases active with either ribo- or deoxyribonucleic acids and producing 3'-phosphomonoesters (3.16)  
 301/16001 . . Spleen exonuclease (3.1.16.1), i.e. 5->3 exoribonuclease  
 301/21 . . Endodeoxyribonucleases producing 5'-phosphomonoesters (3.1.21)  
 301/21001 . . Deoxyribonuclease I (3.1.21.1)  
 301/21002 . . Deoxyribonuclease IV (phage-T(4)-induced) (3.1.21.2)  
 301/21003 . . Type I site-specific deoxyribonuclease (3.1.21.3)  
 301/21004 . . Type II site-specific deoxyribonuclease (3.1.21.4)  
 301/21005 . . Type III site-specific deoxyribonuclease (3.1.21.5)  
 301/21006 . . CC-preferring endodeoxyribonuclease (3.1.21.6)  
 301/21007 . . Deoxyribonuclease V (3.1.21.7)  
 301/22 . . Endodeoxyribonucleases producing 3'-phosphomonoesters (3.1.22)  
 301/22001 . . Deoxyribonuclease II (3.1.22.1)  
 301/22002 . . Aspergillus deoxyribonuclease K(1) (3.1.22.2)  
 301/22004 . . Crossover junction endodeoxyribonuclease (3.1.22.4)  
 301/22005 . . Deoxyribonuclease X (3.1.22.5)  
 301/25 . . Site-specific endodeoxyribonucleases specific for altered bases (3.1.25)  
 301/25001 . . Deoxyribonuclease (pyrimidine dimer)(3.1.25.1)  
 301/26 . . Endoribonucleases producing 5'-phosphomonoesters (3.1.26)  
 301/26001 . . Physarum polycephalum ribonuclease (3.1.26.1)  
 301/26002 . . Ribonuclease alpha (3.1.26.2)  
 301/26003 . . Ribonuclease III (3.1.26.3)  
 301/26004 . . Ribonuclease H (3.1.26.4)  
 301/26005 . . Ribonuclease P (3.1.26.5)  
 301/26006 . . Ribonuclease IV (3.1.26.6)  
 301/26007 . . Ribonuclease P4 (3.1.26.7)  
 301/26008 . . Ribonuclease M5 (3.1.26.8)  
 301/26009 . . Ribonuclease (poly-(U)-specific)(3.1.26.9)  
 301/2601 . . Ribonuclease IX (3.1.26.10)  
 301/26011 . . tRNase Z (3.1.26.11)  
 301/26012 . . Ribonuclease E (3.1.26.12)  
 301/26013 . . Retroviral ribonuclease H (3.1.26.13)  
 301/27 . . Endoribonucleases producing 3'-phosphomonoesters (3.1.27)  
 301/27001 . . Ribonuclease T2 (3.1.27.1)  
 301/27002 . . Bacillus subtilis ribonuclease (3.1.27.2)  
 301/27003 . . Ribonuclease T1 (3.1.27.3)  
 301/27004 . . Ribonuclease U2 (3.1.27.4)  
 301/27005 . . Pancreatic ribonuclease (3.1.27.5)  
 301/27006 . . Enterobacter ribonuclease (3.1.27.6)  
 301/27007 . . Ribonuclease F (3.1.27.7)  
 301/27008 . . Ribonuclease V (3.1.27.8)  
 301/27009 . . tRNA-intron endonuclease (3.1.27.9)  
 301/2701 . . rRNA endonuclease (3.1.27.10)  
 301/30 . . Endoribonucleases active with either ribo- or deoxyribonucleic acids and producing 5'-phosphomonoesters (3.1.30)  
 301/30001 . . Aspergillus nuclease S1 (3.1.30.1)  
 301/30002 . . Serratia marcescens nuclease (3.1.30.2)  
 301/31 . . Endoribonucleases active with either ribo- or deoxyribonucleic acids and producing 3'-phosphomonoesters (3.1.31)  
 301/31001 . . Micrococcal nuclease (3.1.31.1)  
**302/00 Hydrolases acting on glycosyl compounds, i.e. glycosylases (3.2)**  
 302/01 . . Glycosidases, i.e. enzymes hydrolysing O- and S-glycosyl compounds (3.2.1)  
 302/01001 . . Alpha-amylase (3.2.1.1)  
 302/01002 . . Beta-amylase (3.2.1.2)  
 302/01003 . . Glucan 1,4-alpha-glucosidase (3.2.1.3), i.e. glucoamylase



302/01004	. . Cellulase (3.2.1.4), i.e. endo-1,4-beta-glucanase	302/01068	. . Isoamylase (3.2.1.68)
302/01006	. . Endo-1,3(4)-beta-glucanase (3.2.1.6)	302/0107	. . Glucan 1,6-alpha-glucosidase (3.2.1.70)
302/01007	. . Inulinase (3.2.1.7)	302/01071	. . Glucan endo-1,2-beta-glucosidase (3.2.1.71)
302/01008	. . Endo-1,4-beta-xylanase (3.2.1.8)	302/01072	. . Xylan 1,3-beta-xylosidase (3.2.1.72)
302/0101	. . Oligo-1,6-glucosidase (3.2.1.10), i.e. sucrase	302/01073	. . Licheninase (3.2.1.73)
302/01011	. . Dextranase (3.2.1.11)	302/01074	. . Glucan 1,4-beta-glucosidase (3.2.1.74)
302/01014	. . Chitinase (3.2.1.14)	302/01075	. . Glucan endo-1,6-beta-glucosidase (3.2.1.75)
302/01015	. . Polygalacturonase (3.2.1.15)	302/01076	. . L-Iduronidase (3.2.1.76)
302/01017	. . Lysozyme (3.2.1.17)	302/01077	. . Mannan 1,2-(1,3)-alpha-mannosidase (3.2.1.77)
302/01018	. . Exo-alpha-sialidase (3.2.1.18), i.e. trans-sialidase	302/01078	. . Mannan endo-1,4-beta-mannosidase (3.2.1.78), i.e. endo-beta-mannanase
302/01019	. . Heparinase (3.2.1.19)	302/0108	. . Fructan beta-fructosidase (3.2.1.80)
302/0102	. . Alpha-glucosidase (3.2.1.20)	302/01081	. . Beta-agarase (3.2.1.81)
302/01021	. . Beta-glucosidase (3.2.1.21)	302/01082	. . Exo-poly-alpha-galacturonosidase (3.2.1.82)
302/01022	. . Alpha-galactosidase (3.2.1.22)	302/01083	. . Kappa-carrageenase (3.2.1.83)
302/01023	. . Beta-galactosidase (3.2.1.23), i.e. exo-(1-->4)- beta-D-galactanase	302/01084	. . Glucan 1,3-alpha-glucosidase (3.2.1.84), i.e. mutanase
302/01024	. . Alpha-mannosidase (3.2.1.24)	302/01085	. . 6-Phospho-beta-galactosidase (3.2.1.85)
302/01025	. . Beta-mannosidase (3.2.1.25), i.e. mannanase	302/01086	. . 6-Phospho-beta-glucosidase (3.2.1.86)
302/01026	. . Beta-fructofuranosidase (3.2.1.26), i.e. invertase	302/01087	. . Capsular-polysaccharide endo-1,3-alpha- galactosidase (3.2.1.87)
302/01028	. . Alpha, alpha-trehalase (3.2.1.28)	302/01088	. . Beta-L-arabinosidase (3.2.1.88)
302/01031	. . Beta-glucuronidase (3.2.1.31)	302/01089	. . Arabinogalactan endo-beta-1,4-galactanase (3.2.1.89)
302/01032	. . Xylan endo-1,3-beta-xylosidase (3.2.1.32), i.e. endo-1-3-beta-xylanase	302/01091	. . Cellulose 1,4-beta-cellobiosidase (3.2.1.91)
302/01033	. . Amylo-alpha-1,6-glucosidase (3.2.1.33)	302/01092	. . Peptidoglycan beta-N-acetylmuramidase (3.2.1.92)
302/01035	. . Hyaluronoglucosaminidase (3.2.1.35), i.e. hyaluronidase	302/01093	. . Alpha, alpha-phosphotrehalase (3.2.1.93)
302/01036	. . Hyaluronoglucuronidase (3.2.1.36)	302/01094	. . Glucan 1,6-alpha-isomaltosidase (3.2.1.94)
302/01037	. . Xylan 1,4-beta-xylosidase (3.2.1.37)	302/01095	. . Dextran 1,6-alpha-isomaltotriosidase (3.2.1.95)
302/01038	. . Beta-D-fucosidase (3.2.1.38)	302/01096	. . Mannosyl-glycoprotein endo-beta-N- acetylglucosaminidase (3.2.1.96)
302/01039	. . Glucan endo-1,3-beta-D-glucosidase (3.2.1.39)	302/01097	. . Glycopeptide alpha-N-acetylgalactosaminidase (3.2.1.97)
302/0104	. . Alpha-L-rhamnosidase (3.2.1.40)	302/01098	. . Glucan 1,4-alpha-maltohexaosidase (3.2.1.98)
302/01041	. . Pullulanase (3.2.1.41)	302/01099	. . Arabinan endo-1,5-alpha-L-arabinosidase (3.2.1.99)
302/01042	. . GDP-glucosidase (3.2.1.42)	302/011	. . Mannan 1,4-mannobiosidase (3.2.1.100)
302/01043	. . Beta-L-rhamnosidase (3.2.1.43)	302/01101	. . Mannan endo-1,6-alpha-mannosidase (3.2.1.101), i.e. endo-1,6-beta-mannanase
302/01044	. . Fucoidanase (3.2.1.44)	302/01102	. . Blood-group-substance endo-1,4-beta- galactosidase (3.2.1.102)
302/01045	. . Glucosylceramidase (3.2.1.45), i.e. beta- glucocerebrosidase	302/01103	. . Keratan-sulfate endo-1,4-beta-galactosidase (3.2.1.103)
302/01046	. . Galactosylceramidase (3.2.1.46)	302/01104	. . Steryl-beta-glucosidase (3.2.1.104)
302/01047	. . Galactosylgalactosylglucosylceramidase (3.2.1.47)	302/01105	. . 3-Alpha-(S)-strictosidine beta-glucosidase (3.2.1.105)
302/01048	. . Sucrose alpha-glucosidase (3.2.1.48), i.e. sucrase	302/01106	. . Mannosyl-oligosaccharide glucosidase (3.2.1.106), i.e. glucosidase I
302/01049	. . Alpha-N-acetylgalactosaminidase (3.2.1.49)	302/01107	. . Protein-glucosylgalactosylhydroxylysine glucosidase (3.2.1.107)
302/0105	. . Alpha-N-acetylglucosaminidase (3.2.1.50)	302/01108	. . Lactase (3.2.1.108)
302/01051	. . Alpha-L-fucosidase (3.2.1.51)	302/01109	. . Endogalactosaminidase (3.2.1.109)
302/01052	. . Beta-N-acetylhexosaminidase (3.2.1.52)	302/01111	. . 1,3-Alpha-L-fucosidase (3.2.1.111), i.e. 1,3- alpha-fucosidase
302/01053	. . Beta-N-acetylgalactosaminidase (3.2.1.53)	302/01112	. . 2-Deoxyglucosidase (3.2.1.112)
302/01054	. . Cyclomaltodextrinase (3.2.1.54), i.e. cyclodextrinase	302/01113	. . Mannosyl-oligosaccharide 1,2-alpha-mannosidase (3.2.1.113), i.e. alpha-1,2-mannosidase
302/01055	. . Alpha-N-arabinofuranosidase (3.2.1.55)	302/01114	. . Mannosyl-oligosaccharide 1,3-1,6-alpha- mannosidase (3.2.1.114)
302/01056	. . Glucuronosyl-disulfoglucosamine glucuronidase (3.2.1.56), i.e. glycuronidase	302/01115	. . Branched-dextran exo-1,2-alpha-glucosidase (3.2.1.115)
302/01057	. . Isopullulanase (3.2.1.57)	302/01116	. . Glucan 1,4-alpha-maltotriohydrolase (3.2.1.116)
302/01058	. . Glucan 1,3-beta-glucosidase (3.2.1.58)		
302/01059	. . Glucan endo-1,3-alpha-glucosidase (3.2.1.59)		
302/0106	. . Glucan 1,4-alpha-maltotetrahydrolase (3.2.1.60)		
302/01061	. . Mycodextranase (3.2.1.61)		
302/01062	. . Glycosylceramidase (3.2.1.62)		
302/01063	. . 1,2-Alpha-L-fucosidase (3.2.1.63)		
302/01064	. . 2,6-Beta-fructan 6-levanbiohydrolase (3.2.1.64)		
302/01065	. . Levanase (3.2.1.65)		
302/01066	. . Quercitrinase (3.2.1.66)		
302/01067	. . Galacturan 1,4-alpha-galacturonidase (3.2.1.67)		

- 302/01117 . . Amygdalin beta-glucosidase (3.2.1.117)
- 302/01118 . . Prunasin beta-glucosidase (3.2.1.118), i.e. prunasin hydrolase
- 302/01119 . . Vicianin beta-glucosidase (3.2.1.119)
- 302/0112 . . Oligoxyloglucan beta-glycosidase (3.2.1.120)
- 302/01121 . . Polymannuronate hydrolase (3.2.1.121)
- 302/01122 . . Maltose-6'-phosphate glucosidase (3.2.1.122)
- 302/01123 . . Endoglycosylceramidase (3.2.1.123)
- 302/01124 . . 3-Deoxy-2-octulosonidase (3.2.1.124)
- 302/01125 . . Raucaffricine beta-glucosidase (3.2.1.125)
- 302/01126 . . Coniferin beta-glucosidase (3.2.1.126)
- 302/01127 . . 1,6-alpha-L-fucosidase (3.2.1.127)
- 302/01128 . . Glycyrrhizinate beta-glucuronidase (3.2.1.128), i.e. GL beta-D-glucuronidase
- 302/01129 . . Endo-alpha-sialidase (3.2.1.129)
- 302/0113 . . Glycoprotein endo-alpha-1,2-mannosidase (3.2.1.130)
- 302/01131 . . Xylan alpha-1,2-glucuronosidase (3.2.1.131)
- 302/01132 . . Chitosanase (3.2.1.132)
- 302/01133 . . Glucan 1,4-alpha-maltohydrolase (3.2.1.133), i.e. maltogenic alpha-amylase
- 302/01134 . . Difructose-anhydride synthase (3.2.1.134)
- 302/01135 . . Neopullulanase (3.2.1.135)
- 302/01136 . . Glucuronoarabinoxylan endo-1,4-beta-xylanase (3.2.1.136), i.e. feraxanase or feraxan-endoxylanase
- 302/01137 . . Mannan exo-1,2-1,6-alpha-mannosidase (3.2.1.137)
- 302/01139 . . Alpha-glucuronidase (3.2.1.139)
- 302/0114 . . Lacto-N-biosidase (3.2.1.140)
- 302/01141 . . 4-Alpha-D-{(1->4)-alpha-D-glucano} trehalose trehalohydrolase (3.2.1.141)
- 302/01142 . . Limit dextrinase (3.2.1.142)
- 302/01143 . . Poly(ADP-ribose) glycohydrolase (3.2.1.143)
- 302/01144 . . 3-Deoxyoctulosonase (3.2.1.144)
- 302/01145 . . Galactan 1,3-beta-galactosidase (3.2.1.145), i.e. arabinogalactan endo-1,3-beta-galactosidase
- 302/01146 . . Beta-galactofuranosidase (3.2.1.146)
- 302/01147 . . Thioglucosidase (3.2.1.147), i.e. myrosinase
- 302/01149 . . Beta-primeverosidase (3.2.1.149)
- 302/0115 . . Oligoxyloglucan reducing-end-specific cellobiohydrolase (3.2.1.150)
- 302/01151 . . Xyloglucan-specific endo-beta-1,4-glucanase (3.2.1.151), i.e. endoxyloglucanase
- 302/01152 . . Mannosylglycoprotein endo-beta-mannosidase (3.2.1.152)
- 302/01153 . . Fructan beta-(2,1)-fructosidase (3.2.1.153)
- 302/01154 . . Fructan beta-(2,6)-fructosidase (3.2.1.154)
- 302/01155 . . Xyloglucan-specific exo-beta-1,4-glucanase (3.2.1.155), i.e. exoxyloglucanase
- 302/01156 . . Oligosaccharide reducing-end xylanase (3.2.1.156)
- 302/01157 . . Iota-carrageenase (3.2.1.157)
- 302/01158 . . Alpha-agarase (3.2.1.158)
- 302/01159 . . Alpha-neoagaro-oligosaccharide hydrolase (3.2.1.159)
- 302/01161 . . Beta-apiosyl-beta-glucosidase (3.2.1.161)
- 302/01162 . . Lambda-carrageenase (3.2.1.162)
- 302/01163 . . 1,6-Alpha-D-mannosidase (3.2.1.163)
- 302/01164 . . Galactan endo-1,6-beta-galactosidase (3.2.1.164)
- 302/01165 . . Exo-1,4-beta-D-glucosaminidase (3.2.1.165), i.e. exochitosanase
- 302/01166 . . Heparanase (3.2.1.166)
- 302/01167 . . Baicalin-beta-D-glucuronidase (3.2.1.167)
- 302/01168 . . Hesperidin 6-O-alpha-L-rhamnosyl-beta-D-glucosidase (3.2.1.168)
- 302/01169 . . Protein O-GlcNAcase (3.2.1.169)
- 302/0117 . . Mannosylglycerate hydrolase (3.2.1.170)
- 302/01171 . . Rhamnogalacturonan hydrolase (3.2.1.171), i.e. rhamnogalacturonase
- 302/01172 . . Unsaturated rhamnogalacturonyl hydrolase (3.2.1.172)
- 302/01173 . . Rhamnogalacturonan galacturonohydrolase (3.2.1.173)
- 302/01174 . . Rhamnogalacturonan rhamnohydrolase (3.2.1.174)
- 302/01175 . . Beta-D-glucopyranosyl abscisate beta-glucosidase (3.2.1.175)
- 302/01176 . . Cellulose 1,4-beta-cellobiosidase (reducing end) (3.2.1.176)
- 302/01177 . . Alpha-D-xyloside xylohydrolase (3.2.1.177)
- 302/01178 . . Beta-porphyrinase (3.2.1.178)
- 302/01179 . . Gellan tetrasaccharide unsaturated glucuronyl hydrolase (3.2.1.179)
- 302/0118 . . Unsaturated chondroitin disaccharide hydrolase (3.2.1.180)
- 302/01181 . . Galactan endo-beta-1,3-galactanase (3.2.1.181)
- 302/01182 . . 4-Hydroxy-7-methoxy-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl glucoside beta-D-glucosidase (3.2.1.182)
- 302/01183 . . UDP-N-acetylglucosamine 2-epimerase (hydrolysing) (3.2.1.183)
- 302/01184 . . UDP-N,N'-diacetylbacillosamine 2-epimerase (hydrolysing) (3.2.1.184)
- 302/02 . . hydrolysing N-glycosyl compounds (3.2.2)
- 302/02001 . . Purine nucleosidase (3.2.2.1)
- 302/02002 . . Inosine nucleosidase (3.2.2.2)
- 302/02003 . . Uridine nucleosidase (3.2.2.3)
- 302/02004 . . AMP nucleosidase (3.2.2.4)
- 302/02005 . . NAD<sup>+</sup> nucleosidase (3.2.2.5)
- 302/02006 . . NAD(P)<sup>+</sup> nucleosidase (3.2.2.6)
- 302/02007 . . Adenosine nucleosidase (3.2.2.7)
- 302/02008 . . Ribosylpyrimidine nucleosidase (3.2.2.8)
- 302/02009 . . Adenosylhomocysteine nucleosidase (3.2.2.9)
- 302/0201 . . Pyrimidine-5'-nucleotide nucleosidase (3.2.2.10)
- 302/02011 . . Beta-aspartyl-N-acetylglucosaminidase (3.2.2.11)
- 302/02012 . . Inosinate nucleosidase (3.2.2.12)
- 302/02013 . . 1-Methyladenosine nucleosidase (3.2.2.13)
- 302/02014 . . NMN nucleosidase (3.2.2.14)
- 302/02015 . . DNA-deoxyinosine glycosylase (3.2.2.15)
- 302/02016 . . Methylthioadenosine nucleosidase (3.2.2.16)
- 302/02017 . . Deoxyribodipyrimidine endonucleosidase (3.2.2.17)
- 302/02019 . . Protein ADP-ribosylarginine hydrolase (3.2.2.19)
- 302/0202 . . DNA-3-methyladenine glycosylase I (3.2.2.20), i.e. adenine DNA glycosylase
- 302/02021 . . DNA-3-methyladenine glycosylase II (3.2.2.21)
- 302/02022 . . rRNA N-glycosylase (3.2.2.22)
- 302/02023 . . DNA-formamidopyrimidine glycosylase (3.2.2.23)
- 302/02024 . . ADP-ribosyl-[dinitrogen reductase] hydrolase (3.2.2.24)
- 302/02025 . . N-Methyl nucleosidase (3.2.2.25)
- 302/02026 . . Futosine hydrolase (3.2.2.26)
- 302/02027 . . Uracil-DNA glycosylase (3.2.2.27)

- 302/02028 . . Double-stranded uracil-DNA glycosylase (3.2.2.28)
- 302/02029 . . Thymine-DNA glycosylase (3.2.2.29)
- 303/00 Hydrolases acting on ether bonds (3.3)**
- 303/01 . Thioether and trialkylsulfonium hydrolases (3.3.1)
- 303/01001 . . Adenosylhomocysteinase (3.3.1.1)
- 303/01002 . . Adenosylmethionine hydrolase (3.3.1.2)
- 303/02 . Ether hydrolases (3.3.2)
- 303/02001 . . Isochorismatase (3.3.2.1)
- 303/02002 . . Alkenylglycerophosphocholine hydrolase (3.3.2.2)
- 303/02003 . . Epoxide hydrolase (3.3.2.3) ([C12Y 303/02009](#), [C12Y 303/0201](#) take precedence)
- 303/02004 . . Trans-epoxysuccinate hydrolase (3.3.2.4)
- 303/02005 . . Alkenylglycerophosphoethanolamine hydrolase (3.3.2.5)
- 303/02006 . . Leukotriene-A4 hydrolase (3.3.2.6)
- 303/02007 . . Hepoxilin-epoxide hydrolase (3.3.2.7)
- 303/02008 . . Limonene-1,2-epoxide hydrolase (3.3.2.8)
- 303/02009 . . Microsomal epoxide hydrolase (3.3.2.9), i.e. styreneepoxide hydrolase
- 303/0201 . . Soluble epoxide hydrolase (3.3.2.10)
- 303/02011 . . Cholesterol-5,6-oxide hydrolase (3.3.2.11)
- 304/00 Hydrolases acting on peptide bonds, i.e. peptidases (3.4)**
- 304/11 . Aminopeptidases (3.4.11)
- 304/11001 . . Leucyl aminopeptidase (3.4.11.1)
- 304/11002 . . Membrane alanyl aminopeptidase (3.4.11.2), i.e. aminopeptidase N
- 304/11003 . . Cystinyl aminopeptidase (3.4.11.3)
- 304/11004 . . Tripeptide aminopeptidase (3.4.11.4)
- 304/11005 . . Prolyl aminopeptidase (3.4.11.5)
- 304/11006 . . Aminopeptidase B (3.4.11.6)
- 304/11007 . . Glutamyl aminopeptidase (3.4.11.7)
- 304/11009 . . Xaa-Pro aminopeptidase (3.4.11.9), i.e. aminopeptidase P
- 304/1101 . . Bacterial leucyl aminopeptidase (3.4.11.10)
- 304/11011 . . Aminopeptidase (3.4.11.11)
- 304/11013 . . Clostridial aminopeptidase (3.4.11.13)
- 304/11014 . . Cytosol alanyl aminopeptidase (3.4.11.14)
- 304/11015 . . Aminopeptidase Y (3.4.11.15), i.e. lysyl aminopeptidase
- 304/11016 . . Xaa-Trp aminopeptidase (3.4.11.16)
- 304/11017 . . Tryptophanyl aminopeptidase (3.4.11.17)
- 304/11018 . . Methionyl aminopeptidase (3.4.11.18)
- 304/11019 . . D-Stereospecific aminopeptidase (3.4.11.19)
- 304/1102 . . Aminopeptidase Ey (3.4.11.20)
- 304/11021 . . Aspartyl aminopeptidase (3.4.11.21)
- 304/11022 . . Aminopeptidase I (3.4.11.22)
- 304/11023 . . PepB aminopeptidase (3.4.11.23)
- 304/11024 . . Aminopeptidase S (3.4.11.24)
- 304/11025 . . Beta-peptidyl aminopeptidase (3.4.11.25)
- 304/11026 . . Intermediate cleaving peptidase 55 (3.4.11.26)
- 304/13 . Dipeptidases (3.4.13)
- 304/13003 . . Xaa-His dipeptidase (3.4.13.3) ([C12Y 304/13018](#), [C12Y 304/1302](#) take precedence)
- 304/13004 . . Xaa-Arg dipeptidase (3.4.13.4)
- 304/13005 . . Xaa-methyl-His dipeptidase (3.4.13.5)
- 304/13007 . . Glu-Glu dipeptidase (3.4.13.7)
- 304/13009 . . Xaa-Pro dipeptidase (3.4.13.9) i.e. prolidase
- 304/13011 . . Dipeptidase (3.4.13.11) ([C12Y 304/13018](#), [C12Y 304/13019](#) take precedence)
- 304/13012 . . Met-Xaa dipeptidase (3.4.13.12)
- 304/13017 . . Non-stereospecific dipeptidase (3.4.13.17)
- 304/13018 . . Cytosol nonspecific dipeptidase (3.4.13.18), i.e. glycyl-leucine dipeptidase
- 304/13019 . . Membrane dipeptidase (3.4.13.19)
- 304/1302 . . Beta-Ala-His dipeptidase (3.4.13.20)
- 304/13021 . . Dipeptidase E (3.4.13.21)
- 304/13022 . . D-Ala-D-Ala dipeptidase (3.4.13.22)
- 304/14 . Dipeptidyl-peptidases and tripeptidyl-peptidases (3.4.14)
- 304/14001 . . Dipeptidyl-peptidase I (3.4.14.1), i.e. cathepsin-C
- 304/14002 . . Dipeptidyl-peptidase II (3.4.14.2)
- 304/14004 . . Dipeptidyl-peptidase III (3.4.14.4)
- 304/14005 . . Dipeptidyl-peptidase IV (3.4.14.5)
- 304/14006 . . Dipeptidyl-dipeptidase (3.4.14.6)
- 304/14008 . . Tripeptidyl peptidase (3.4.14.8) ([C12Y 304/14009](#), [C12Y 304/1401](#) take precedence)
- 304/14009 . . Tripeptidyl-peptidase I (3.4.14.9)
- 304/1401 . . Tripeptidyl-peptidase II (3.4.14.10)
- 304/14011 . . Xaa-Pro dipeptidyl-peptidase (3.4.14.11)
- 304/14012 . . Xaa-Xaa-Pro tripeptidyl-peptidase (3.4.14.12), i.e. prolyltri-peptidyl aminopeptidase
- 304/15 . Peptidyl-dipeptidases (3.4.15)
- 304/15001 . . Peptidyl-dipeptidase A (3.4.15.1)
- 304/15004 . . Peptidyl-dipeptidase B (3.4.15.4)
- 304/15005 . . Peptidyl-dipeptidase Dcp (3.4.15.5)
- 304/15006 . . Cyanophycinase (3.4.15.6)
- 304/16 . Serine-type carboxypeptidases (3.4.16)
- 304/16001 . . Serine carboxypeptidase (3.4.16.1) ([C12Y 304/16005](#), [C12Y 304/16006](#) take precedence)
- 304/16002 . . Lysosomal Pro-Xaa carboxypeptidase (3.4.16.2)
- 304/16004 . . Serine-type D-Ala-D-Ala carboxypeptidase (3.4.16.4)
- 304/16005 . . Carboxypeptidase C (3.4.16.5), i.e. carboxypeptidase Y
- 304/16006 . . Carboxypeptidase D (3.4.16.6)
- 304/17 . Metallo-carboxypeptidases (3.4.17)
- 304/17001 . . Carboxypeptidase A (3.4.17.1)
- 304/17002 . . Carboxypeptidase B (3.4.17.2)
- 304/17003 . . Lysine carboxypeptidase (3.4.17.3)
- 304/17004 . . Gly-Xaa carboxypeptidase (3.4.17.4)
- 304/17006 . . Alanine carboxypeptidase (3.4.17.6)
- 304/17008 . . Muramoylpentapeptide carboxypeptidase (3.4.17.8)
- 304/1701 . . Carboxypeptidase E (3.4.17.10)
- 304/17011 . . Glutamate carboxypeptidase (3.4.17.11)
- 304/17012 . . Carboxypeptidase M (3.4.17.12)
- 304/17013 . . Muramoyltetrapeptide carboxypeptidase (3.4.17.13)
- 304/17014 . . Zinc D-Ala-D-Ala carboxypeptidase (3.4.17.14)
- 304/17015 . . Carboxypeptidase A2 (3.4.17.15)
- 304/17016 . . Membrane Pro-Xaa carboxypeptidase (3.4.17.16)
- 304/17017 . . Tubuliny-Tyr carboxypeptidase (3.4.17.17)
- 304/17018 . . Carboxypeptidase T (3.4.17.18)
- 304/17019 . . Carboxypeptidase Taq (3.4.17.19)
- 304/1702 . . Carboxypeptidase U (3.4.17.20)
- 304/17021 . . Glutamate carboxypeptidase II (3.4.17.21)
- 304/17022 . . Metallo-carboxypeptidase D (3.4.17.22)

- 304/17023 . . Angiotensin-converting enzyme 2 (3.4.17.23)
- 304/18 . . Cysteine-type carboxypeptidases (3.4.18)
- 304/18001 . . Cathepsin X (3.4.18.1)
- 304/19 . . Omega peptidases (3.4.19)
- 304/19001 . . Acylaminoacyl-peptidase (3.4.19.1)
- 304/19002 . . Peptidyl-glycinamidase (3.4.19.2)
- 304/19003 . . Pyroglutamyl-peptidase I (3.4.19.3)
- 304/19005 . . Beta-aspartyl-peptidase (3.4.19.5)
- 304/19006 . . Pyroglutamyl-peptidase II (3.4.19.6)
- 304/19007 . . N-Formylmethionyl-peptidase (3.4.19.7)
- 304/19009 . . Gamma-glutamyl hydrolase (3.4.19.9)
- 304/19011 . . Gamma-D-glutamyl-meso-diaminopimelate peptidase (3.4.19.11)
- 304/19012 . . Ubiquitinyl hydrolase I (3.4.19.12)
- 304/19013 . . Glutathione hydrolase I (3.4.19.13)
- 304/19014 . . Leukotriene-C4 hydrolase (3.4.19.14)
- 304/21 . . Serine endopeptidases (3.4.21)
- 304/21001 . . Chymotrypsin (3.4.21.1)
- 304/21002 . . Chymotrypsin C (3.4.21.2)
- 304/21003 . . Metridin (3.4.21.3)
- 304/21004 . . Trypsin (3.4.21.4)
- 304/21005 . . Thrombin (3.4.21.5)
- 304/21006 . . Coagulation factor Xa (3.4.21.6)
- 304/21007 . . Plasmin (3.4.21.7), i.e. fibrinolysin
- 304/21008 . . Kallikrein (3.4.21.8) ([C12Y 304/21034](#), [C12Y 304/21035](#) take precedence)
- 304/21009 . . Enteropeptidase (3.4.21.9), i.e. enterokinase
- 304/2101 . . Acrosin (3.4.21.10)
- 304/21011 . . Elastase (3.4.21.11) ([C12Y 304/21036](#), [C12Y 304/21037](#) take precedence)
- 304/21012 . . Alpha-lytic endopeptidase (3.4.21.12)
- 304/21014 . . Microbial serine proteases (3.4.21.14) ([C12Y 304/21062](#) - [C12Y 304/21067](#) takes precedence)
- 304/21019 . . Glutamyl endopeptidase (3.4.21.19)
- 304/2102 . . Cathepsin G (3.4.21.20)
- 304/21021 . . Coagulation factor VIIa (3.4.21.21)
- 304/21022 . . Coagulation factor IXa (3.4.21.22)
- 304/21025 . . Cucumisin (3.4.21.25)
- 304/21026 . . Prolyl oligopeptidase (3.4.21.26), i.e. proline-specific endopeptidase
- 304/21027 . . Coagulation factor XIa (3.4.21.27)
- 304/21031 . . Urokinase (3.4.21.31) ([C12Y 304/21068](#), [C12Y 304/21073](#) take precedence)
- 304/21032 . . Brachyurin (3.4.21.32)
- 304/21034 . . Plasma kallikrein (3.4.21.34)
- 304/21035 . . Tissue kallikrein (3.4.21.35)
- 304/21036 . . Pancreatic elastase (3.4.21.36)
- 304/21037 . . Leukocyte elastase (3.4.21.37), i.e. neutrophil-elastase
- 304/21038 . . Coagulation factor XIIa (3.4.21.38)
- 304/21039 . . Chymase (3.4.21.39)
- 304/21041 . . Complement subcomponent C1r (3.4.21.41)
- 304/21042 . . Complement subcomponent C1s (3.4.21.42)
- 304/21043 . . Classical-complement-pathway C3/C5 convertase (3.4.21.43)
- 304/21045 . . Complement factor I (3.4.21.45)
- 304/21046 . . Complement factor D (3.4.21.46)
- 304/21047 . . Alternative-complement-pathway C3/C5 convertase (3.4.21.47), i.e. properdin factor B
- 304/21048 . . Cerevisin (3.4.21.48)
- 304/21049 . . Hypodermin C (3.4.21.49)
- 304/2105 . . Lysyl endopeptidase (3.4.21.50)
- 304/21053 . . Endopeptidase La (3.4.21.53)
- 304/21054 . . Gamma-renin (3.4.21.54)
- 304/21055 . . Venombin AB (3.4.21.55)
- 304/21057 . . Leucyl endopeptidase (3.4.21.57)
- 304/21059 . . Tryptase (3.4.21.59)
- 304/2106 . . Scutellarin (3.4.21.60)
- 304/21061 . . Kexin (3.4.21.61), i.e. proprotein convertase subtilisin/kexin type 9
- 304/21062 . . Subtilisin (3.4.21.62)
- 304/21063 . . Oryzin (3.4.21.63)
- 304/21064 . . Peptidase K (3.4.21.64)
- 304/21065 . . Thermomycolin (3.4.21.65)
- 304/21066 . . Thermitase (3.4.21.66)
- 304/21067 . . Endopeptidase So (3.4.21.67)
- 304/21068 . . Tissue plasminogen activator (3.4.21.68), i.e. tPA
- 304/21069 . . Protein C activated (3.4.21.69)
- 304/2107 . . Pancreatic endopeptidase E (3.4.21.70)
- 304/21071 . . Pancreatic elastase II (3.4.21.71)
- 304/21072 . . IgA-specific serine endopeptidase (3.4.21.72)
- 304/21073 . . u-Plasminogen activator (3.4.21.73), i.e. urokinase
- 304/21074 . . Venombin A (3.4.21.74)
- 304/21075 . . Furin (3.4.21.75)
- 304/21076 . . Myeloblastin (3.4.21.76)
- 304/21077 . . Semenogelase (3.4.21.77), i.e. prostate specific antigen or PSA or kallikrein 3
- 304/21078 . . Granzyme A (3.4.21.78)
- 304/21079 . . Granzyme B (3.4.21.79)
- 304/2108 . . Streptogrisin A (3.4.21.80)
- 304/21081 . . Streptogrisin B (3.4.21.81)
- 304/21082 . . Glutamyl endopeptidase II (3.4.21.82)
- 304/21083 . . Oligopeptidase B (3.4.21.83), i.e. trypsin-like protease
- 304/21084 . . limulus clotting factor C (3.4.21.84)
- 304/21085 . . Limulus clotting factor B (3.4.21.85)
- 304/21086 . . Limulus clotting enzyme (3.4.21.86)
- 304/21088 . . Repressor LexA (3.4.21.88)
- 304/21089 . . Signal peptidase I (3.4.21.89)
- 304/2109 . . Togavirin (3.4.21.90)
- 304/21091 . . Flavivirin (3.4.21.91)
- 304/21092 . . Endopeptidase Clp (3.4.21.92)
- 304/21093 . . Proprotein convertase 1 (3.4.21.93)
- 304/21094 . . Proprotein convertase 2 (3.4.21.94), i.e. prohormone convertase 2
- 304/21095 . . Snake venom factor V activator (3.4.21.95)
- 304/21096 . . Lactocepain (3.4.21.96)
- 304/21097 . . Assemblin (3.4.21.97)
- 304/21098 . . Hepacivirin (3.4.21.98)
- 304/21099 . . Spermosin (3.4.21.99)
- 304/211 . . Sedolisin (3.4.21.100)
- 304/21101 . . Xanthomonalisin (3.4.21.101)
- 304/21102 . . C-terminal processing peptidase (3.4.21.102)
- 304/21103 . . Physarolisin (3.4.21.103), i.e. physaropepsin
- 304/21104 . . Mannan-binding lectin-associated serine protease-2 (3.4.21.104)
- 304/21105 . . Rhomboid protease (3.4.21.105)
- 304/21106 . . Hepsin (3.4.21.106)
- 304/21107 . . Peptidase Do (3.4.21.107)
- 304/21108 . . HtrA2 peptidase (3.4.21.108)
- 304/21109 . . Matriptase (3.4.21.109)
- 304/2111 . . C5a peptidase (3.4.21.110)

- 304/21111 . . Aqualysin 1 (3.4.21.111)  
304/21112 . . Site-1 protease (3.4.21.112), i.e. subtilisin kexin isozyme-1  
304/21113 . . Pestivirus NS3 polyprotein peptidase (3.4.21.113)  
304/21114 . . Equine arterivirus serine peptidase (3.4.21.114)  
304/21115 . . Infectious pancreatic necrosis birnavirus Vp4 peptidase (3.4.21.115)  
304/21116 . . SpoIVB peptidase (3.4.21.116)  
304/21117 . . Stratum corneum chymotryptic enzyme (3.4.21.117)  
304/21118 . . Kallikrein 8 (3.4.21.118)  
304/21119 . . Kallikrein 13 (3.4.21.119)  
304/2112 . . Oviductin (3.4.21.120)  
304/21826 . . Proprotein convertase 5 (3.4.21.B26)  
304/22 . . Cysteine endopeptidases (3.4.22)  
304/22001 . . Cathepsin B (3.4.22.1)  
304/22002 . . Papain (3.4.22.2)  
304/22003 . . Ficin (3.4.22.3)  
304/22004 . . Bromelain (3.4.22.4) ([C12Y 304/22032](#), [C12Y 304/22033 take precedence](#))  
304/22006 . . Chymopapain (3.4.22.6)  
304/22007 . . Asclepain (3.4.22.7)  
304/22008 . . Clostripain (3.4.22.8)  
304/2201 . . Streptopain (3.4.22.10)  
304/22014 . . Actinidain (3.4.22.14)  
304/22015 . . Cathepsin L (3.4.22.15)  
304/22016 . . Cathepsin H (3.4.22.16)  
304/22017 . . Calpain (3.4.22.17) ([C12Y 304/22052](#), [C12Y 304/22053 take precedence](#))  
304/22024 . . Cathepsin T (3.4.22.24)  
304/22025 . . Glycyl endopeptidase (3.4.22.25)  
304/22026 . . Cancer procoagulant (3.4.22.26)  
304/22027 . . Cathepsin S (3.4.22.27)  
304/22028 . . Picornain 3C (3.4.22.28)  
304/22029 . . Picornain 2A (3.4.22.29)  
304/2203 . . Caricain (3.4.22.30)  
304/22031 . . Ananain (3.4.22.31)  
304/22032 . . Stem bromelain (3.4.22.32)  
304/22033 . . Fruit bromelain (3.4.22.33), i.e. juice bromelain  
304/22034 . . Legumain (3.4.22.34), i.e. asparaginyl endopeptidase  
304/22035 . . Histolysain (3.4.22.35)  
304/22036 . . Caspase-1 (3.4.22.36), i.e. interleukin-1-beta-convertase  
304/22037 . . Gingipain R (3.4.22.37)  
304/22038 . . Cathepsin K (3.4.22.38)  
304/22039 . . Adenain (3.4.22.39)  
304/2204 . . Bleomycin hydrolase (3.4.22.40)  
304/22041 . . Cathepsin F (3.4.22.41)  
304/22042 . . Cathepsin O (3.4.22.42)  
304/22043 . . Cathepsin V (3.4.22.43)  
304/22044 . . Nuclear-inclusion-a endopeptidase (3.4.22.44)  
304/22045 . . Helper-component proteinase (3.4.22.45)  
304/22046 . . L-Peptidase (3.4.22.46)  
304/22047 . . Gingipain K (3.4.22.47)  
304/22048 . . Staphopain (3.4.22.48)  
304/22049 . . Separase (3.4.22.49)  
304/2205 . . V-Cath endopeptidase (3.4.22.50)  
304/22051 . . Cruzipain (3.4.22.51)  
304/22052 . . Calpain-1 (3.4.22.52)  
304/22053 . . Calpain-2 (3.4.22.53), i.e. m-calpain  
304/22054 . . Calpain-3 (3.4.22.54), i.e. calpain p94  
304/22055 . . Caspase-2 (3.4.22.55)  
304/22056 . . Caspase-3 (3.4.22.56)  
304/22057 . . Caspase-4 (3.4.22.57)  
304/22058 . . Caspase-5 (3.4.22.58)  
304/22059 . . Caspase-6 (3.4.22.59)  
304/2206 . . Caspase-7 (3.4.22.60)  
304/22061 . . Caspase-8 (3.4.22.61)  
304/22062 . . Caspase-9 (3.4.22.62)  
304/22063 . . Caspase-10 (3.4.22.63)  
304/22064 . . Caspase-11 (3.4.22.64)  
304/22065 . . Peptidase 1 (mite) (3.4.22.65)  
304/22066 . . Calicivirin (3.4.22.66)  
304/22067 . . Zingipain (3.4.22.67)  
304/22068 . . Ulp1 peptidase (3.4.22.68)  
304/22069 . . SARS coronavirus main proteinase (3.4.22.69)  
304/2207 . . Sortase A (3.4.22.70)  
304/22071 . . Sortase B (3.4.22.71)  
304/23 . . Aspartic endopeptidases (3.4.23)  
304/23001 . . Pepsin A (3.4.23.1)  
304/23002 . . Pepsin B (3.4.23.2)  
304/23003 . . Gastricsin (3.4.23.3)  
304/23004 . . Chymosin (3.4.23.4), i.e. rennin  
304/23005 . . Cathepsin D (3.4.23.5)  
304/23006 . . Microbial carboxyl proteinases (3.4.23.6) ([C12Y 304/23018 - C12Y 304/23028](#), [C12Y 304/2303 take precedence](#))  
304/23012 . . Nepenthesin (3.4.23.12)  
304/23015 . . Renin (3.4.23.15)  
304/23016 . . HIV-1 retropepsin (3.4.23.16)  
304/23017 . . Pro-opiomelanocortin converting enzyme (3.4.23.17)  
304/23018 . . Aspergillopepsin I (3.4.23.18)  
304/23019 . . Aspergillopepsin II (3.4.23.19)  
304/2302 . . Penicillopepsin (3.4.23.20)  
304/23021 . . Rhizopuspepsin (3.4.23.21)  
304/23022 . . Endothiapepsin (3.4.23.22)  
304/23023 . . Mucorpepsin (3.4.23.23)  
304/23024 . . Candidapepsin (3.4.23.24)  
304/23025 . . Saccharopepsin (3.4.23.25), i.e. yeast proteinase A  
304/23026 . . Rhodotorulapepsin (3.4.23.26)  
304/23028 . . Acrocylindropepsin (3.4.23.28)  
304/23029 . . Polyporopepsin (3.4.23.29)  
304/2303 . . Pycnoporoepsin (3.4.23.30)  
304/23031 . . Scytalidopepsin A (3.4.23.31)  
304/23032 . . Scytalidopepsin B (3.4.23.32)  
304/23034 . . Cathepsin E (3.4.23.34)  
304/23035 . . Barrierpepsin (3.4.23.35)  
304/23036 . . Signal peptidase II (3.4.23.36)  
304/23038 . . Plasmepsin I (3.4.23.38)  
304/23039 . . Plasmepsin II (3.4.23.39)  
304/2304 . . Phytpepsin (3.4.23.40)  
304/23041 . . Yapsin 1 (3.4.23.41)  
304/23042 . . Thermopsin (3.4.23.42)  
304/23043 . . Prepilin peptidase (3.4.23.43)  
304/23044 . . Nodavirus endopeptidase (3.4.23.44)  
304/23045 . . Memapsin 1 (3.4.23.45), i.e. beta-secretase 2 or BACE2  
304/23046 . . Memapsin 2 (3.4.23.46), i.e. beta-secretase 1 or BACE  
304/23047 . . HIV-2 retropepsin (3.4.23.47)  
304/23048 . . Plasminogen activator Pla (3.4.23.48)

- 304/23049 . . Omptin (3.4.23.49)
- 304/2305 . . Human endogenous retrovirus K endopeptidase (3.4.23.50)
- 304/23051 . . HycI peptidase (3.4.23.51)
- 304/23052 . . Preflagellin peptidase (3.4.23.52)
- 304/24 . . Metalloendopeptidases (3.4.24)
- 304/24001 . . Atrolysin A (3.4.24.1)
- 304/24003 . . Microbial collagenase (3.4.24.3)
- 304/24004 . . Microbial metalloproteinases (3.4.24.4)  
([C12Y 304/24025](#) - [C12Y 304/24032](#),  
[C12Y 304/24039](#), [C12Y 304/2404](#) take precedence)
- 304/24005 . . Lens neutral proteinase (3.4.24.5)  
([C12Y 304/22052](#), [C12Y 304/22053](#),  
[C12Y 304/25001](#) take precedence)
- 304/24006 . . Leucolysin (3.4.24.6)
- 304/24007 . . Interstitial collagenase (3.4.24.7), i.e. matrix metalloproteinase 1 or MMP1
- 304/24011 . . Noprilysin (3.4.24.11), i.e. enkephalinase or neutral endopeptidase 24.11
- 304/24012 . . Envelysin (3.4.24.12)
- 304/24013 . . IgA-specific metalloendopeptidase (3.4.24.13)
- 304/24014 . . Procollagen N-endopeptidase (3.4.24.14)
- 304/24015 . . Thimet oligopeptidase (3.4.24.15)
- 304/24016 . . Neurolysin (3.4.24.16)
- 304/24017 . . Stromelysin 1 (3.4.24.17)
- 304/24018 . . Meprin A (3.4.24.18)
- 304/24019 . . Procollagen C-endopeptidase (3.4.24.19)
- 304/2402 . . Peptidyl-Lys metalloendopeptidase (3.4.24.20)
- 304/24021 . . Astacin (3.4.24.21)
- 304/24022 . . Stromelysin 2 (3.4.24.22)
- 304/24023 . . Matrilysin (3.4.24.23)
- 304/24024 . . Gelatinase A (3.4.24.24), i.e. matrix metalloproteinase 2 or MMP2
- 304/24025 . . Vibriolysin (3.4.24.25)
- 304/24026 . . Pseudolysin (3.4.24.26)
- 304/24027 . . Thermolysin (3.4.24.27)
- 304/24028 . . Bacillolysin (3.4.24.28)
- 304/24029 . . Aureolysin (3.4.24.29)
- 304/2403 . . Coccolysin (3.4.24.30)
- 304/24031 . . Mycolysin (3.4.24.31)
- 304/24032 . . Beta-lytic metalloendopeptidase (3.4.24.32)
- 304/24033 . . Peptidyl-Asp metalloendopeptidase (3.4.24.33)
- 304/24034 . . Neutrophil collagenase (3.4.24.34)
- 304/24035 . . Gelatinase B (3.4.24.35), i.e. matrix metalloproteinase 9 or MMP9
- 304/24036 . . Leishmanolysin (3.4.24.36)
- 304/24037 . . Saccharolysin (3.4.24.37), i.e. yeast cysteine proteinase D
- 304/24038 . . Gametolysin (3.4.24.38), i.e. cell wall lytic enzyme
- 304/24039 . . Deuterolysin (3.4.24.39)
- 304/2404 . . Serralysin (3.4.24.40)
- 304/24041 . . Atrolysin B (3.4.24.41)
- 304/24042 . . Atrolysin C (3.4.24.42)
- 304/24043 . . Atroxase (3.4.24.43)
- 304/24044 . . Atrolysin E (3.4.24.44)
- 304/24045 . . Atrolysin F (3.4.24.45)
- 304/24046 . . Adamalysin (3.4.24.46)
- 304/24047 . . Horrilysin (3.4.24.47)
- 304/24048 . . Ruberlysin (3.4.24.48)
- 304/24049 . . Bothropasin (3.4.24.49)
- 304/2405 . . Bothrolysin (3.4.24.50)
- 304/24051 . . Ophiolysin (3.4.24.51)
- 304/24052 . . Trimerelysin I (3.4.24.52)
- 304/24053 . . Trimerelysin II (3.4.24.53)
- 304/24054 . . Mucrolysin (3.4.24.54)
- 304/24055 . . Pitrilysin (3.4.24.55)
- 304/24056 . . Insulysin (3.4.24.56)
- 304/24057 . . O-Sialoglycoprotein endopeptidase (3.4.24.57), i.e. glycoprotease
- 304/24058 . . Russellysin (3.4.24.58)
- 304/24059 . . Mitochondrial intermediate peptidase (3.4.24.59)
- 304/2406 . . Dactylysin (3.4.24.60)
- 304/24061 . . Nardilysin (3.4.24.61)
- 304/24062 . . Magnolysin (3.4.24.62)
- 304/24063 . . Meprin B (3.4.24.63)
- 304/24064 . . Mitochondrial processing peptidase (3.4.24.64)
- 304/24065 . . Macrophage elastase (3.4.24.65), i.e. metalloelastase
- 304/24066 . . Choriolysin L (3.4.24.66)
- 304/24067 . . Choriolysin H (3.4.24.67)
- 304/24068 . . Tentoxilysin (3.4.24.68), i.e. tetanus neurotoxin
- 304/24069 . . Bontoxilysin (3.4.24.69), i.e. botulinum neurotoxin
- 304/2407 . . Oligopeptidase A (3.4.24.70)
- 304/24071 . . Endothelin-converting enzyme 1 (3.4.24.71)
- 304/24072 . . Fibrolase (3.4.24.72)
- 304/24073 . . Jararhagin (3.4.24.73)
- 304/24074 . . Fragilysin (3.4.24.74)
- 304/24075 . . Lysostaphin (3.4.24.75)
- 304/24076 . . Flavastacin (3.4.24.76)
- 304/24077 . . Snapalysin (3.4.24.77)
- 304/24078 . . GPR endopeptidase (3.4.24.78)
- 304/24079 . . Pappalysin-I (3.4.24.79)
- 304/2408 . . Membrane-type matrix metalloproteinase-1 (3.4.24.80)
- 304/24081 . . ADAM10 endopeptidase (3.4.24.81)
- 304/24082 . . ADAMTS-4 endopeptidase (3.4.24.82), i.e. aggrecanase 1
- 304/24083 . . Anthrax lethal factor endopeptidase (3.4.24.83)
- 304/24084 . . Ste24 endopeptidase (3.4.24.84)
- 304/24085 . . S2P endopeptidase (3.4.24.85)
- 304/24086 . . ADAM 17 endopeptidase (3.4.24.86), i.e. TNF-alpha converting enzyme
- 304/24087 . . ADAMTS13 endopeptidase (3.4.24.87)
- 304/24812 . . ADAMTS5 endopeptidase (3.4.24.B12), i.e. aggrecanase 2
- 304/25 . . Threonine endopeptidases (3.4.25)
- 304/25001 . . Proteasome endopeptidase complex (3.4.25.1)
- 304/25002 . . HslU--HslV peptidase (3.4.25.2)
- 305/00 Hydrolases acting on carbon-nitrogen bonds, other than peptide bonds (3.5)**
- 305/01 . . in linear amides (3.5.1)
- 305/01001 . . Asparaginase (3.5.1.1)
- 305/01002 . . Glutaminase (3.5.1.2)
- 305/01003 . . Omega-amidase (3.5.1.3)
- 305/01004 . . Amidase (3.5.1.4)
- 305/01005 . . Urease (3.5.1.5)
- 305/01006 . . Beta-ureidopropionase (3.5.1.6)
- 305/01007 . . Ureidosuccinase (3.5.1.7)
- 305/01008 . . Formylaspartate deformylase (3.5.1.8)
- 305/01009 . . Arylformamidase (3.5.1.9)

- 305/0101 . . Formyltetrahydrofolate deformylase (3.5.1.10)
- 305/01011 . . Penicillin amidase (3.5.1.11), i.e. penicillin-amidohydrolase
- 305/01012 . . Biotinidase (3.5.1.12)
- 305/01013 . . Aryl-acylamidase (3.5.1.13)
- 305/01014 . . Aminoacylase (3.5.1.14)
- 305/01015 . . Aspartoacylase (3.5.1.15)
- 305/01016 . . Acetylornithine deacetylase (3.5.1.16)
- 305/01017 . . Acyl-lysine deacylase (3.5.1.17)
- 305/01018 . . Succinyl-diaminopimelate desuccinylase (3.5.1.18)
- 305/01019 . . Nicotinamidase (3.5.1.19)
- 305/0102 . . Citrullinase (3.5.1.20)
- 305/01021 . . N-Acetyl-beta-alanine deacetylase (3.5.1.21)
- 305/01022 . . Pantothenase (3.5.1.22)
- 305/01023 . . Ceramidase (3.5.1.23)
- 305/01024 . . Choloylglycine hydrolase (3.5.1.24), i.e. bile salt hydrolase
- 305/01025 . . N-Acetylglucosamine-6-phosphate deacetylase (3.5.1.25)
- 305/01026 . . N4-(Beta-N-acetylglucosaminyl)-L-asparaginase (3.5.1.26)
- 305/01027 . . N-Formylmethionylaminoacyl-tRNA deformylase (3.5.1.27)
- 305/01028 . . N-Acetylmuramoyl-L-alanine amidase (3.5.1.28)
- 305/01029 . . 2-(Acetamidomethylene)succinate hydrolase (3.5.1.29)
- 305/0103 . . 5-Aminopentanamidase (3.5.1.30)
- 305/01031 . . Formylmethionine deformylase (3.5.1.31)
- 305/01032 . . Hippurate hydrolase (3.5.1.32)
- 305/01033 . . N-Acetylglucosamine deacetylase (3.5.1.33)
- 305/01035 . . D-Glutaminase (3.5.1.35)
- 305/01036 . . N-Methyl-2-oxoglutaramate hydrolase (3.5.1.36)
- 305/01038 . . Glutamin-(asparagin-)-ase (3.5.1.38)
- 305/01039 . . Alkylamidase (3.5.1.39)
- 305/0104 . . Acylagmatine amidase (3.5.1.40)
- 305/01041 . . Chitin deacetylase (3.5.1.41)
- 305/01042 . . Nicotinamide-nucleotide amidase (3.5.1.42)
- 305/01043 . . Peptidyl-glutaminase (3.5.1.43)
- 305/01044 . . Protein-glutamine glutaminase (3.5.1.44)
- 305/01046 . . 6-Aminohexanoate-dimer hydrolase (3.5.1.46)
- 305/01047 . . N-Acetyldiaminopimelate deacetylase (3.5.1.47)
- 305/01048 . . Acetylspermidine deacetylase (3.5.1.48)
- 305/01049 . . Formamidase (3.5.1.49)
- 305/0105 . . Pentanamidase (3.5.1.50)
- 305/01051 . . 4-Acetamidobutyryl-CoA deacetylase (3.5.1.51)
- 305/01052 . . Peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase (3.5.1.52), i.e. glycopeptidase
- 305/01053 . . N-carbamoylputrescine amidase (3.5.1.53)
- 305/01054 . . Allophanate hydrolase (3.5.1.54)
- 305/01055 . . Long-chain-fatty-acyl-glutamate deacylase (3.5.1.55)
- 305/01056 . . N,N-Dimethylformamidase (3.5.1.56)
- 305/01057 . . Tryptophanamidase (3.5.1.57)
- 305/01058 . . N-Benzoyloxycarbonylglycine hydrolase (3.5.1.58)
- 305/01059 . . N-Carbamoylsarcosine amidase (3.5.1.59)
- 305/0106 . . N-(Long-chain-acyl)ethanolamine deacylase (3.5.1.60)
- 305/01061 . . Mimosinase (3.5.1.61)
- 305/01062 . . Acetylputrescine deacetylase (3.5.1.62)
- 305/01063 . . 4-Acetamidobutyrate deacetylase (3.5.1.63)
- 305/01064 . . Nalpha-benzyloxycarbonylleucine hydrolase (3.5.1.64)
- 305/01065 . . Theanine hydrolase (3.5.1.65)
- 305/01066 . . 2-(Hydroxymethyl)-3-(acetamidomethylene)succinate hydrolase (3.5.1.66)
- 305/01067 . . 4-Methyleneglutaminase (3.5.1.67)
- 305/01068 . . N-Formylglutamate deformylase (3.5.1.68)
- 305/01069 . . Glycosphingolipid deacylase (3.5.1.69)
- 305/0107 . . Aculeacin-A deacylase (3.5.1.70)
- 305/01071 . . N-Feruloylglycine deacylase (3.5.1.71)
- 305/01072 . . D-Benzoylarginine-4-nitroanilide amidase (3.5.1.72)
- 305/01073 . . Carnitinamidase (3.5.1.73)
- 305/01074 . . Chenodeoxycholoyltaurine hydrolase (3.5.1.74)
- 305/01075 . . Urethanase (3.5.1.75)
- 305/01076 . . Arylalkyl acylamidase (3.5.1.76)
- 305/01077 . . N-Carbamoyl-D-amino-acid hydrolase (3.5.1.77)
- 305/01078 . . Glutathionylspermidine amidase (3.5.1.78)
- 305/01079 . . Phthalyl amidase (3.5.1.79)
- 305/01081 . . N-Acyl-D-amino-acid deacylase (3.5.1.81)
- 305/01082 . . N-Acyl-D-glutamate deacylase (3.5.1.82)
- 305/01083 . . N-Acyl-D-aspartate deacylase (3.5.1.83)
- 305/01084 . . Biuret amidohydrolase (3.5.1.84)
- 305/01085 . . (S)-N-Acetyl-1-phenylethylamine hydrolase (3.5.1.85)
- 305/01086 . . Mandelamide amidase (3.5.1.86)
- 305/01087 . . N-Carbamoyl-L-amino-acid hydrolase (3.5.1.87)
- 305/01088 . . Peptide deformylase (3.5.1.88)
- 305/01089 . . N-Acetylglucosaminylphosphatidylinositol deacetylase (3.5.1.89)
- 305/0109 . . Adenosylcobinamide hydrolase (3.5.1.90)
- 305/01091 . . N-Substituted formamide deformylase (3.5.1.91)
- 305/01092 . . Pantetheine hydrolase (3.5.1.92)
- 305/01093 . . Glutaryl-7-aminocephalosporanic-acid acylase (3.5.1.93)
- 305/01094 . . Gamma-glutamyl-gamma-aminobutyrate hydrolase (3.5.1.94)
- 305/01095 . . N-Malonylurea hydrolase (3.5.1.95)
- 305/01096 . . Succinylglutamate desuccinylase (3.5.1.96)
- 305/01097 . . Acyl-homoserine-lactone acylase (3.5.1.97)
- 305/01098 . . Histone deacetylase (3.5.1.98), i.e. sirtuin deacetylase
- 305/01099 . . Fatty acid amide hydrolase (3.5.1.99)
- 305/011 . . (R)-Amidase (3.5.1.100)
- 305/01101 . . L-Proline amide hydrolase (3.5.1.101)
- 305/01102 . . 2-Amino-5-formylamino-6-ribosylaminopyrimidin-4(3H)-one 5'-monophosphate deformylase (3.5.1.102)
- 305/01103 . . N-Acetyl-1-D-myo-inositol-2-amino-2-deoxy-alpha-D-glucopyranoside deacetylase (3.5.1.103)
- 305/01104 . . Peptidoglycan-N-acetylglucosamine deacetylase (3.5.1.104)
- 305/01105 . . Chitin disaccharide deacetylase (3.5.1.105)
- 305/01106 . . N-formylmaleamate deformylase (3.5.1.106)
- 305/01107 . . Maleamate amidohydrolase (3.5.1.107)
- 305/01108 . . UDP-3-O-acyl-N-acetylglucosamine deacetylase (3.5.1.108)
- 305/01109 . . Sphingomyelin deacylase (3.5.1.109)
- 305/0111 . . Peroxyureidoacrylate/ureidoacrylate amidohydrolase (3.5.1.110)
- 305/01111 . . 2-Oxoglutaramate amidase (3.5.1.111)
- 305/01112 . . 2'-N-Acetylparomamine deacetylase (3.5.1.112)

- 305/01113 . . 2''-Acetyl-6''-hydroxyneomycin C deacetylase (3.5.1.113)
- 305/02 . . in cyclic amides (3.5.2)
- 305/02001 . . Barbiturase (3.5.2.1)
- 305/02002 . . Dihydropyrimidinase (3.5.2.2), i.e. hydantoinase
- 305/02003 . . Dihydroorotase (3.5.2.3)
- 305/02004 . . Carboxymethylhydantoinase (3.5.2.4)
- 305/02005 . . Allantoinase (3.5.2.5)
- 305/02006 . . Beta-lactamase (3.5.2.6)
- 305/02007 . . Imidazolonepropionase (3.5.2.7)
- 305/02009 . . 5-Oxoprolinase (ATP-hydrolysing) (3.5.2.9)
- 305/0201 . . Creatininase (3.5.2.10)
- 305/02011 . . L-Lysine-lactamase (3.5.2.11)
- 305/02012 . . 6-Aminohexanoate-cyclic-dimer hydrolase (3.5.2.12)
- 305/02013 . . 2,5-Dioxopiperazine hydrolase (3.5.2.13)
- 305/02014 . . N-Methylhydantoinase (ATP-hydrolyzing) (3.5.2.14)
- 305/02015 . . Cyanuric acid amidohydrolase (3.5.2.15)
- 305/02016 . . Maleimide hydrolase (3.5.2.16)
- 305/02017 . . Hydroxyisourate hydrolase (3.5.2.17)
- 305/02018 . . Enamidase (3.5.2.18)
- 305/02019 . . Streptothricin hydrolase (3.5.2.19)
- 305/03 . . in linear amidines (3.5.3)
- 305/03001 . . Arginase (3.5.3.1)
- 305/03002 . . Guanidinoacetase (3.5.3.2)
- 305/03003 . . Creatinase (3.5.3.3), i.e. creatine amidinohydrolase
- 305/03004 . . Allantoicase (3.5.3.4)
- 305/03005 . . Formimidoylaspartate deiminase (3.5.3.5)
- 305/03006 . . Arginine deiminase (3.5.3.6)
- 305/03007 . . Guanidinobutyrase (3.5.3.7)
- 305/03008 . . Formimidoylglutamase (3.5.3.8)
- 305/03009 . . Allantoate deiminase (3.5.3.9)
- 305/0301 . . D-Arginase (3.5.3.10)
- 305/03011 . . Agmatinase (3.5.3.11)
- 305/03012 . . Agmatine deiminase (3.5.3.12)
- 305/03013 . . Formimidoylglutamate deiminase (3.5.3.13)
- 305/03014 . . Amidinoaspartase (3.5.3.14)
- 305/03015 . . Protein-arginine deiminase (3.5.3.15)
- 305/03016 . . Methylguanidinase (3.5.3.16)
- 305/03017 . . Guanidinopropionase (3.5.3.17)
- 305/03018 . . Dimethylargininase (3.5.3.18)
- 305/03019 . . Ureidoglycolate hydrolase (3.5.3.19)
- 305/0302 . . Diguanidinobutanase (3.5.3.20)
- 305/03021 . . Methyleneurea deaminase (3.5.3.21)
- 305/03022 . . Proclavaminase amidinohydrolase (3.5.3.22)
- 305/03023 . . N-Succinylarginine dihydrolase (3.5.3.23)
- 305/04 . . in cyclic amidines (3.5.4)
- 305/04001 . . Cytosine deaminase (3.5.4.1)
- 305/04002 . . Adenine deaminase (3.5.4.2)
- 305/04003 . . Guanine deaminase (3.5.4.3)
- 305/04004 . . Adenosine deaminase (3.5.4.4)
- 305/04005 . . Cytidine deaminase (3.5.4.5)
- 305/04006 . . AMP deaminase (3.5.4.6)
- 305/04007 . . ADP deaminase (3.5.4.7)
- 305/04008 . . Aminoimidazolase (3.5.4.8)
- 305/04009 . . Methenyltetrahydrofolate cyclohydrolase (3.5.4.9)
- 305/0401 . . IMP cyclohydrolase (3.5.4.10)
- 305/04011 . . Pterin deaminase (3.5.4.11)
- 305/04012 . . dCMP deaminase (3.5.4.12)
- 305/04013 . . dCTP deaminase (3.5.4.13)
- 305/04014 . . Deoxycytidine deaminase (3.5.4.14)
- 305/04015 . . Guanosine deaminase (3.5.4.15)
- 305/04016 . . GTP cyclohydrolase I (3.5.4.16)
- 305/04017 . . Adenosine-phosphate deaminase (3.5.4.17)
- 305/04018 . . ATP deaminase (3.5.4.18)
- 305/04019 . . Phosphoribosyl-AMP cyclohydrolase (3.5.4.19)
- 305/0402 . . Pyriithiamine deaminase (3.5.4.20)
- 305/04021 . . Creatinine deaminase (3.5.4.21)
- 305/04022 . . 1-Pyrroline-4-hydroxy-2-carboxylate deaminase (3.5.4.22)
- 305/04023 . . Blastidicin-S deaminase (3.5.4.23)
- 305/04024 . . Sepiapterin deaminase (3.5.4.24)
- 305/04025 . . GTP cyclohydrolase II (3.5.4.25)
- 305/04026 . . Diaminohydroxyphosphoribosylaminopyrimidine deaminase (3.5.4.26)
- 305/04027 . . Methenyltetrahydromethanopterin cyclohydrolase (3.5.4.27)
- 305/04028 . . S-Adenosylhomocysteine deaminase (3.5.4.28)
- 305/04029 . . GTP cyclohydrolase IIa (3.5.4.29)
- 305/0403 . . dCTP deaminase (dUMP-forming) (3.5.4.30)
- 305/04031 . . S-Methyl-5'-thioadenosine deaminase (3.5.4.31)
- 305/04032 . . 8-Oxoguanine deaminase (3.5.4.32)
- 305/05 . . in nitriles (3.5.5)
- 305/05001 . . Nitrilase (3.5.5.1)
- 305/05002 . . Ricinine nitrilase (3.5.5.2)
- 305/05004 . . Cyanoalanine nitrilase (3.5.5.4)
- 305/05005 . . Arylacetonitrilase (3.5.5.5)
- 305/05006 . . Bromoxynil nitrilase (3.5.5.6)
- 305/05007 . . Aliphatic nitrilase (3.5.5.7)
- 305/05008 . . Thiocyanate hydrolase (3.5.5.8)
- 305/99 . . in other compounds (3.5.99)
- 305/99001 . . Riboflavinase (3.5.99.1)
- 305/99002 . . Thiaminase (3.5.99.2)
- 305/99003 . . Hydroxydechloroatrazine ethylaminohydrolase (3.5.99.3)
- 305/99004 . . N-isopropylammelide isopropylaminohydrolase (3.5.99.4)
- 305/99005 . . 2-Aminomuconate deaminase (3.5.99.5)
- 305/99006 . . Glucosamine-6-phosphate deaminase (3.5.99.6)
- 305/99007 . . 1-Aminocyclopropane-1-carboxylate deaminase (3.5.99.7)
- 305/99008 . . 5-Nitroanthranilic acid aminohydrolase (3.5.99.8)
- 305/99009 . . 2-Nitroimidazole nitrohydrolase (3.5.99.9)
- 306/00 Hydrolases acting on acid anhydrides (3.6)**
- 306/01 . . in phosphorus-containing anhydrides (3.6.1)
- 306/01001 . . Inorganic diphosphatase (3.6.1.1)
- 306/01002 . . Trimetaphosphatase (3.6.1.2)
- 306/01003 . . Adenosine triphosphatase (3.6.1.3)
- 306/01005 . . Apyrase (3.6.1.5), i.e. ATP diphosphohydrolase
- 306/01006 . . Nucleoside-diphosphatase (3.6.1.6)
- 306/01007 . . Acylphosphatase (3.6.1.7)
- 306/01008 . . ATP diphosphatase (3.6.1.8)
- 306/01009 . . Nucleotide diphosphatase (3.6.1.9), i.e. nucleotide-pyrophosphatase
- 306/0101 . . Endopolyphosphatase (3.6.1.10)
- 306/01011 . . Exopolyphosphatase (3.6.1.11)
- 306/01012 . . dCTP diphosphatase (3.6.1.12)
- 306/01013 . . ADP-ribose diphosphatase (3.6.1.13)
- 306/01014 . . Adenosine-tetraphosphatase (3.6.1.14)
- 306/01015 . . Nucleoside-triphosphatase (3.6.1.15)



- 306/01016 . . CDP-glycerol diphosphatase (3.6.1.16)
- 306/01017 . . Bis(5'-nucleosyl)-tetraphosphatase (asymmetrical) (3.6.1.17)
- 306/01018 . . FAD diphosphatase (3.6.1.18)
- 306/01019 . . Nucleoside-triphosphate diphosphatase (3.6.1.19)
- 306/0102 . . 5'-Acylphosphoadenosine hydrolase (3.6.1.20)
- 306/01021 . . ADP-sugar diphosphatase (3.6.1.21)
- 306/01022 . . NAD+ diphosphatase (3.6.1.22)
- 306/01023 . . dUTP diphosphatase (3.6.1.23)
- 306/01024 . . Nucleoside phosphoacylhydrolase (3.6.1.24)
- 306/01025 . . Triphosphatase (3.6.1.25)
- 306/01026 . . CDP-diacylglycerol diphosphatase (3.6.1.26)
- 306/01027 . . Undecaprenyl-diphosphate phosphatase (3.6.1.27)
- 306/01028 . . Thiamine-triphosphatase (3.6.1.28)
- 306/01029 . . Bis(5'-adenosyl)-triphosphatase (3.6.1.29)
- 306/0103 . . m7G(5')pppN diphosphatase (3.6.1.30)  
([C12Y 306/01059](#) and [C12Y 306/01062](#) take precedence)
- 306/01031 . . Phosphoribosyl-ATP diphosphatase (3.6.1.31)
- 306/01039 . . Thymidine-triphosphatase (3.6.1.39), i.e. T4 helicase
- 306/0104 . . Guanosine-5'-triphosphate,3'-diphosphate diphosphatase (3.6.1.40)
- 306/01041 . . Bis(5'-nucleosyl)-tetraphosphatase (symmetrical) (3.6.1.41)
- 306/01042 . . Guanosine-diphosphatase (3.6.1.42)
- 306/01043 . . Dolichyldiphosphatase (3.6.1.43)
- 306/01044 . . Oligosaccharide-diphosphodolichol diphosphatase (3.6.1.44)
- 306/01045 . . UDP-sugar diphosphatase (3.6.1.45)
- 306/01052 . . Diphosphoinositol-polyphosphate diphosphatase (3.6.1.52)
- 306/01053 . . Mn<sup>2+</sup>-dependent ADP-ribose/CDP-alcohol diphosphatase (3.6.1.53)
- 306/01054 . . UDP-2,3-diacylglucosamine diphosphatase (3.6.1.54)
- 306/01055 . . 8-Oxo-dGTP diphosphatase (3.6.1.55)
- 306/01056 . . 2-Hydroxy-dATP diphosphatase (3.6.1.56)
- 306/01057 . . UDP-2,4-diacetamido-2,4,6-trideoxy-beta-L-altropyranose hydrolase (3.6.1.57)
- 306/01058 . . 8-Oxo-dGDP phosphatase (3.6.1.58)
- 306/01059 . . m7GpppX diphosphatase (3.6.1.59)
- 306/0106 . . Diadenosine hexaphosphate hydrolase (AMP-forming) (3.6.1.60)
- 306/01061 . . Diadenosine hexaphosphate hydrolase (ATP-forming) (3.6.1.61)
- 306/01062 . . m7GpppN-mRNA hydrolase (3.6.1.62)
- 306/01063 . . Alpha-D-ribose 1-methylphosphonate 5-triphosphate diphosphatase (3.6.1.63)
- 306/02 . . in sulfonyl-containing anhydrides (3.6.2)
- 306/02001 . . Adenylylsulfatase (3.6.2.1)
- 306/02002 . . Phosphoadenylylsulfatase (3.6.2.2)
- 306/03 . . acting on acid anhydrides; catalysing transmembrane movement of substances (3.6.3)
- 306/03001 . . Phospholipid-translocating ATPase (3.6.3.1), i.e. Mg<sup>2+</sup>-ATPase
- 306/03002 . . Mg<sup>2+</sup>-importing ATPase (3.6.3.2)
- 306/03003 . . Cd<sup>2+</sup>-exporting ATPase (3.6.3.3)
- 306/03004 . . Cu<sup>2+</sup>-exporting ATPase (3.6.3.4)
- 306/03005 . . Zn<sup>2+</sup>-exporting ATPase (3.6.3.5)
- 306/03006 . . H<sup>+</sup>-exporting ATPase (3.6.3.6)
- 306/03007 . . Na<sup>+</sup>-exporting ATPase (3.6.3.7)
- 306/03008 . . Ca<sup>2+</sup>-transporting ATPase (3.6.3.8)
- 306/03009 . . Na<sup>+</sup>/K<sup>+</sup>-exchanging ATPase (3.6.3.9)
- 306/0301 . . H<sup>+</sup>/K<sup>+</sup>-exchanging ATPase (3.6.3.10)
- 306/03011 . . Cl<sup>-</sup>-transporting ATPase (3.6.3.11)
- 306/03012 . . K<sup>+</sup>-transporting ATPase (3.6.3.12)
- 306/03014 . . H<sup>+</sup>-transporting two-sector ATPase (3.6.3.14), i.e. F1 ATPase
- 306/03015 . . Na<sup>+</sup>-transporting two-sector ATPase (3.6.3.15)
- 306/03016 . . Arsenite-transporting ATPase (3.6.3.16)
- 306/03017 . . Monosaccharide-transporting ATPase (3.6.3.17)
- 306/03018 . . Oligosaccharide-transporting ATPase (3.6.3.18)
- 306/03019 . . Maltose-transporting ATPase (3.6.3.19)
- 306/0302 . . Glycerol-3-phosphate-transporting ATPase (3.6.3.20)
- 306/03021 . . Polar-amino-acid-transporting ATPase (3.6.3.21)
- 306/03022 . . Nonpolar-amino-acid-transporting ATPase (3.6.3.22)
- 306/03023 . . Oligopeptide-transporting ATPase (3.6.3.23)
- 306/03024 . . Nickel-transporting ATPase (3.6.3.24)
- 306/03025 . . Sulfate-transporting ATPase (3.6.3.25)
- 306/03026 . . Nitrate-transporting ATPase (3.6.3.26)
- 306/03027 . . Phosphate-transporting ATPase (3.6.3.27)
- 306/03028 . . Phosphonate-transporting ATPase (3.6.3.28)
- 306/03029 . . Molybdate-transporting ATPase (3.6.3.29)
- 306/0303 . . Fe<sup>3+</sup>-transporting ATPase (3.6.3.30)
- 306/03031 . . Polyamine-transporting ATPase (3.6.3.31)
- 306/03032 . . Quaternary-amine-transporting ATPase (3.6.3.32)
- 306/03033 . . Vitamin B12-transporting ATPase (3.6.3.33)
- 306/03034 . . Iron-chelate-transporting ATPase (3.6.3.34)
- 306/03035 . . Manganese-transporting ATPase (3.6.3.35)
- 306/03036 . . Taurine-transporting ATPase (3.6.3.36)
- 306/03037 . . Guanine-transporting ATPase (3.6.3.37)
- 306/03038 . . Capsular-polysaccharide-transporting ATPase (3.6.3.38)
- 306/03039 . . Lipopolysaccharide-transporting ATPase (3.6.3.39)
- 306/0304 . . Teichoic-acid-transporting ATPase (3.6.3.40)
- 306/03041 . . Heme-transporting ATPase (3.6.3.41)
- 306/03042 . . Beta-glucan-transporting ATPase (3.6.3.42)
- 306/03043 . . Peptide-transporting ATPase (3.6.3.43)
- 306/03044 . . Xenobiotic-transporting ATPase (3.6.3.44)
- 306/03046 . . Cadmium-transporting ATPase (3.6.3.46)
- 306/03047 . . Fatty-acyl-CoA-transporting ATPase (3.6.3.47)
- 306/03048 . . Alpha-factor-transporting ATPase (3.6.3.48)
- 306/03049 . . Channel-conductance-controlling ATPase (3.6.3.49)
- 306/0305 . . Protein-secreting ATPase (3.6.3.50)
- 306/03051 . . Mitochondrial protein-transporting ATPase (3.6.3.51)
- 306/03052 . . Chloroplast protein-transporting ATPase (3.6.3.52)
- 306/03053 . . Ag<sup>+</sup>-exporting ATPase (3.6.3.53)
- 306/04 . . acting on acid anhydrides; involved in cellular and subcellular movement (3.6.4)
- 306/04001 . . Myosin ATPase (3.6.4.1)
- 306/04002 . . Dynein ATPase (3.6.4.2)
- 306/04003 . . Microtubule-severing ATPase (3.6.4.3)
- 306/04004 . . Plus-end-directed kinesin ATPase (3.6.4.4)
- 306/04005 . . Minus-end-directed kinesin ATPase (3.6.4.5)
- 306/04006 . . Vesicle-fusing ATPase (3.6.4.6)
- 306/04007 . . Peroxisome-assembly ATPase (3.6.4.7)
- 306/04008 . . Proteasome ATPase (3.6.4.8)
- 306/04009 . . Chaperonin ATPase (3.6.4.9)

- 306/0401 . . Non-chaperonin molecular chaperone ATPase (3.6.4.10)
- 306/04011 . . Nucleoplasmin ATPase (3.6.4.11)
- 306/04012 . . DNA helicase (3.6.4.12)
- 306/04013 . . RNA helicase (3.6.4.13)
- 306/05 . . acting on GTP; involved in cellular and subcellular movement (3.6.5)
- 306/05001 . . Heterotrimeric G-protein GTPase (3.6.5.1)
- 306/05002 . . Small monomeric GTPase (3.6.5.2)
- 306/05003 . . Protein-synthesizing GTPase (3.6.5.3)
- 306/05004 . . Signal-recognition-particle GTPase (3.6.5.4)
- 306/05005 . . Dynamin GTPase (3.6.5.5)
- 306/05006 . . Tubulin GTPase (3.6.5.6)
- 307/00 Hydrolases acting on carbon-carbon bonds (3.7)**
- 307/01 . . in ketonic substances (3.7.1)
- 307/01001 . . Oxaloacetase (3.7.1.1)
- 307/01002 . . Fumarylacetoacetase (3.7.1.2)
- 307/01003 . . Kynureninase (3.7.1.3)
- 307/01004 . . Phloretin hydrolase (3.7.1.4)
- 307/01005 . . Acylpyruvate hydrolase (3.7.1.5)
- 307/01006 . . Acetylpyruvate hydrolase (3.7.1.6)
- 307/01007 . . Beta-diketone hydrolase (3.7.1.7)
- 307/01008 . . 2,6-Dioxo-6-phenylhexa-3-enoate hydrolase (3.7.1.8)
- 307/01009 . . 2-Hydroxyomuconate-semialdehyde hydrolase (3.7.1.9)
- 307/0101 . . Cyclohexane-1,3-dione hydrolase (3.7.1.10)
- 307/01011 . . Cyclohexane-1,2-dione hydrolase (3.7.1.11)
- 307/01012 . . Cobalt-precorrin 5A hydrolase (3.7.1.12)
- 307/01013 . . 2-Hydroxy-6-oxo-6-(2-aminophenyl)hexa-2,4-dienoate hydrolase (3.7.1.13)
- 307/01014 . . 2-Hydroxy-6-oxonona-2,4-dienedioate hydrolase (3.7.1.14)
- 307/01015 . . (+)-Caryolan-1-ol synthase (3.7.1.15)
- 307/01016 . . Oxepin-CoA hydrolase (3.7.1.16)
- 307/01017 . . 4,5:9,10-Diseco-3-hydroxy-5,9,17-trioxoandrosta-1(10),2-diene-4-oate hydrolase (3.7.1.17)
- 307/01018 . . 6-Oxocamphor hydrolase (3.7.1.18)
- 307/01019 . . 2,6-Dihydroxypseudooxynicotine hydrolase (3.7.1.19)
- 307/0102 . . 3-Fumarylpyruvate hydrolase (3.7.1.20)
- 308/00 Hydrolases acting on halide bonds (3.8)**
- 308/01 . . in C-halide substances (3.8.1)
- 308/01001 . . Alkylhalidase (3.8.1.1)
- 308/01002 . . (S)-2-Haloacid dehalogenase (3.8.1.2)
- 308/01003 . . Haloacetate dehalogenase (3.8.1.3)
- 308/01005 . . Haloalkane dehalogenase (3.8.1.5)
- 308/01006 . . 4-Chlorobenzoate dehalogenase (3.8.1.6)
- 308/01007 . . 4-Chlorobenzoyl-CoA dehalogenase (3.8.1.7)
- 308/01008 . . Atrazine chlorohydrolase (3.8.1.8)
- 308/01009 . . (R)-2-Haloacid dehalogenase (3.8.1.9)
- 308/0101 . . 2-Haloacid dehalogenase (configuration-inverting) (3.8.1.10)
- 308/01011 . . 2-Haloacid dehalogenase (configuration-retaining) (3.8.1.11)
- 309/00 Hydrolases acting on phosphorus-nitrogen bonds (3.9)**
- 309/01 . . acting on phosphorus-nitrogen bonds (3.9.1)
- 309/01001 . . Phosphoamidase (3.9.1.1)
- 310/00 Hydrolases acting on sulfur-nitrogen bonds (3.10)**
- 310/01 . . acting on sulfur-nitrogen bonds (3.10.1)
- 310/01001 . . N-Sulfoglucosamine sulfohydrolase (3.10.1.1)
- 310/01002 . . Cyclamate sulfohydrolase (3.10.1.2)
- 311/00 Hydrolases acting on carbon-phosphorus bonds (3.11)**
- 311/01 . . acting on carbon-phosphorus bonds (3.11.1)
- 311/01001 . . Phosphonoacetaldehyde hydrolase (3.11.1.1)
- 311/01002 . . Phosphonoacetate hydrolase (3.11.1.2)
- 311/01003 . . Phosphonopyruvate hydrolase (3.11.1.3)
- 312/00 Hydrolases acting on sulfur-sulfur bonds (3.12)**
- 312/01 . . acting on sulfur-sulfur bonds (3.12.1)
- 312/01001 . . Trithionate hydrolase (3.12.1.1)
- 313/00 Hydrolases acting on carbon-sulfur bonds (3.13)**
- 313/01 . . acting on carbon-sulfur bonds (3.13.1)
- 313/01001 . . UDP-sulfoquinovose synthase (3.13.1.1)
- 313/01003 . . 2'-Hydroxybiphenyl-2-sulfinate desulfinate (3.13.1.3)
- 401/00 Carbon-carbon lyases (4.1)**
- 401/01 . . Carboxy-lyases (4.1.1)
- 401/01001 . . Pyruvate decarboxylase (4.1.1.1)
- 401/01002 . . Oxalate decarboxylase (4.1.1.2)
- 401/01003 . . Oxaloacetate decarboxylase (4.1.1.3)
- 401/01004 . . Acetoacetate decarboxylase (4.1.1.4)
- 401/01005 . . Acetolactate decarboxylase (4.1.1.5)
- 401/01006 . . Aconitate decarboxylase (4.1.1.6)
- 401/01007 . . Benzoylformate decarboxylase (4.1.1.7)
- 401/01008 . . Oxalyl-CoA decarboxylase (4.1.1.8)
- 401/01009 . . Malonyl-CoA decarboxylase (4.1.1.9)
- 401/01011 . . Aspartate 1-decarboxylase (4.1.1.11)
- 401/01012 . . Aspartate 4-decarboxylase (4.1.1.12)
- 401/01014 . . Valine decarboxylase (4.1.1.14)
- 401/01015 . . Glutamate decarboxylase (4.1.1.15)
- 401/01016 . . Hydroxyglutamate decarboxylase (4.1.1.16)
- 401/01017 . . Ornithine decarboxylase (4.1.1.17)
- 401/01018 . . Lysine decarboxylase (4.1.1.18)
- 401/01019 . . Arginine decarboxylase (4.1.1.19)
- 401/0102 . . Diaminopimelate decarboxylase (4.1.1.20)
- 401/01021 . . Phosphoribosylaminoimidazole carboxylase (4.1.1.21)
- 401/01022 . . Histidine decarboxylase (4.1.1.22)
- 401/01023 . . Orotidine-5'-phosphate decarboxylase (4.1.1.23)
- 401/01024 . . Aminobenzoate decarboxylase (4.1.1.24)
- 401/01025 . . Tyrosine decarboxylase (4.1.1.25)
- 401/01028 . . Aromatic-L-amino-acid decarboxylase (4.1.1.28), i.e. tryptophane-decarboxylase
- 401/01029 . . Sulfinoalanine decarboxylase (4.1.1.29)
- 401/0103 . . Pantothenoylcysteine decarboxylase (4.1.1.30)
- 401/01031 . . Phosphoenolpyruvate carboxylase (4.1.1.31)
- 401/01032 . . Phosphoenolpyruvate carboxykinase (GTP) (4.1.1.32)
- 401/01033 . . Diphosphomevalonate decarboxylase (4.1.1.33), i.e. mevalonate-pyrophosphate decarboxylase
- 401/01034 . . Dehydro-L-gulonate decarboxylase (4.1.1.34)
- 401/01035 . . UDP-glucuronate decarboxylase (4.1.1.35), i.e. UDP-D-xylose synthase
- 401/01036 . . Phosphopantothenoylcysteine decarboxylase (4.1.1.36)
- 401/01037 . . Uroporphyrinogen decarboxylase (4.1.1.37)

- 401/01038 . . Phosphoenolpyruvate carboxykinase (diphosphate) (4.1.1.38)
- 401/01039 . . Ribulose-bisphosphate carboxylase (4.1.1.39)
- 401/0104 . . Hydroxypyruvate decarboxylase (4.1.1.40)
- 401/01041 . . Methylmalonyl-CoA decarboxylase (4.1.1.41)
- 401/01042 . . Carnitine decarboxylase (4.1.1.42)
- 401/01043 . . Phenylpyruvate decarboxylase (4.1.1.43)
- 401/01044 . . 4-Carboxymuconolactone decarboxylase (4.1.1.44)
- 401/01045 . . Aminocarboxymuconate-semialdehyde decarboxylase (4.1.1.45)
- 401/01046 . . o-Pyrocatechuate decarboxylase (4.1.1.46)
- 401/01047 . . Tartronate-semialdehyde synthase (4.1.1.47)
- 401/01048 . . Indole-3-glycerol-phosphate synthase (4.1.1.48)
- 401/01049 . . Phosphoenolpyruvate carboxykinase (ATP) (4.1.1.49)
- 401/0105 . . Adenosylmethionine decarboxylase (4.1.1.50)
- 401/01051 . . 3-Hydroxy-2-methylpyridine-4,5-dicarboxylate 4-decarboxylase (4.1.1.51)
- 401/01052 . . 6-Methylsalicylate decarboxylase (4.1.1.52)
- 401/01053 . . Phenylalanine decarboxylase (4.1.1.53)
- 401/01054 . . Dihydroxyfumarate decarboxylase (4.1.1.54)
- 401/01055 . . 4,5-Dihydroxyphthalate decarboxylase (4.1.1.55)
- 401/01056 . . 3-Oxolaurate decarboxylase (4.1.1.56)
- 401/01057 . . Methionine decarboxylase (4.1.1.57)
- 401/01058 . . Orsellinate decarboxylase (4.1.1.58)
- 401/01059 . . Gallate decarboxylase (4.1.1.59)
- 401/0106 . . Stipitatonate decarboxylase (4.1.1.60)
- 401/01061 . . 4-Hydroxybenzoate decarboxylase (4.1.1.61)
- 401/01062 . . Gentisate decarboxylase (4.1.1.62)
- 401/01063 . . Protocatechuate decarboxylase (4.1.1.63)
- 401/01064 . . 2,2-Dialkylglycine decarboxylase (pyruvate) (4.1.1.64)
- 401/01065 . . Phosphatidylserine decarboxylase (4.1.1.65)
- 401/01066 . . Uracil-5-carboxylate decarboxylase (4.1.1.66)
- 401/01067 . . UDP-galacturonate decarboxylase (4.1.1.67)
- 401/01068 . . 5-Oxopent-3-ene-1,2,5-tricarboxylate decarboxylase (4.1.1.68)
- 401/01069 . . 3,4-Dihydroxyphthalate decarboxylase (4.1.1.69)
- 401/0107 . . Glutaconyl-CoA decarboxylase (4.1.1.70)
- 401/01071 . . 2-Oxoglutarate decarboxylase (4.1.1.71)
- 401/01072 . . Branched-chain-2-oxoacid decarboxylase (4.1.1.72)
- 401/01073 . . Tartrate decarboxylase (4.1.1.73)
- 401/01074 . . Indolepyruvate decarboxylase (4.1.1.74)
- 401/01075 . . 5-Guanidino-2-oxopentanoate decarboxylase (4.1.1.75)
- 401/01076 . . Arylmalonate decarboxylase (4.1.1.76)
- 401/01077 . . 2-Oxo-3-hexenedioate decarboxylase (4.1.1.77)
- 401/01078 . . Acetylenedicarboxylate decarboxylase (4.1.1.78)
- 401/01079 . . Sulfopyruvate decarboxylase (4.1.1.79)
- 401/0108 . . 4-Hydroxyphenylpyruvate decarboxylase (4.1.1.80)
- 401/01081 . . Threonine-phosphate decarboxylase (4.1.1.81)
- 401/01082 . . Phosphonopyruvate decarboxylase (4.1.1.82)
- 401/01083 . . 4-Hydroxyphenylacetate decarboxylase (4.1.1.83)
- 401/01084 . . D-Dopachrome decarboxylase (4.1.1.84)
- 401/01085 . . 3-Dehydro-L-gulonate-6-phosphate decarboxylase (4.1.1.85)
- 401/01086 . . Diaminobutyrate decarboxylase (4.1.1.86)
- 401/01087 . . Malonyl-S-ACP decarboxylase (4.1.1.87)
- 401/01088 . . Biotin-independent malonate decarboxylase (4.1.1.88)
- 401/01089 . . Biotin-dependent malonate decarboxylase (4.1.1.89)
- 401/0109 . . Peptidyl-glutamate 4-carboxylase (4.1.1.90)
- 401/01091 . . Salicylate decarboxylase (4.1.1.91)
- 401/01092 . . Indole-3-carboxylate decarboxylase (4.1.1.92)
- 401/01093 . . Pyrrole-2-carboxylate decarboxylase (4.1.1.93)
- 401/01094 . . Ethylmalonyl-CoA decarboxylase (4.1.1.94)
- 401/01095 . . L-Glutamyl-[BtrI acyl-carrier protein] decarboxylase (4.1.1.95)
- 401/01096 . . Carboxynorspermidine decarboxylase (4.1.1.96)
- 401/02 . . Aldehyde-lyases (4.1.2)
- 401/02002 . . Ketotetrose-phosphate aldolase (4.1.2.2)
- 401/02004 . . Deoxyribose-phosphate aldolase (4.1.2.4)
- 401/02005 . . L-Threonine aldolase (4.1.2.5)
- 401/02008 . . Indole-3-glycerol-phosphate lyase (4.1.2.8)
- 401/02009 . . Phosphoketolase (4.1.2.9)
- 401/0201 . . (R)-Mandelonitrile lyase (4.1.2.10)
- 401/02011 . . Hydroxymandelonitrile lyase (4.1.2.11)
- 401/02012 . . 2-Dehydropantoate aldolase (4.1.2.12), i.e. ketopantoaldolase
- 401/02013 . . Fructose-bisphosphate aldolase (4.1.2.13)
- 401/02014 . . 2-Dehydro-3-deoxy-phosphogluconate aldolase (4.1.2.14)
- 401/02017 . . L-Fucose-phosphate aldolase (4.1.2.17)
- 401/02018 . . 2-Dehydro-3-deoxy-L-pentonate aldolase (4.1.2.18)
- 401/02019 . . Rhamnose-1-phosphate aldolase (4.1.2.19)
- 401/0202 . . 2-Dehydro-3-deoxyglucarate aldolase (4.1.2.20)
- 401/02021 . . 2-Dehydro-3-deoxy-6-phosphogalactonate aldolase (4.1.2.21)
- 401/02022 . . Fructose-6-phosphate phosphoketolase (4.1.2.22)
- 401/02023 . . 3-Deoxy-D-manno-octulosonate aldolase (4.1.2.23)
- 401/02024 . . Dimethylaniline-N-oxide aldolase (4.1.2.24)
- 401/02025 . . Dihydroneopterin aldolase (4.1.2.25)
- 401/02026 . . Phenylserine aldolase (4.1.2.26)
- 401/02027 . . Sphinganine-1-phosphate aldolase (4.1.2.27)
- 401/02028 . . 2-Dehydro-3-deoxy-D-pentonate aldolase (4.1.2.28)
- 401/02029 . . 5-Dehydro-2-deoxyphosphogluconate aldolase (4.1.2.29)
- 401/0203 . . 17-Alpha-hydroxyprogesterone aldolase (4.1.2.30)
- 401/02032 . . Trimethylamine-oxide aldolase (4.1.2.32)
- 401/02033 . . Fucosterol-epoxide lyase (4.1.2.33)
- 401/02034 . . 4-(2-carboxyphenyl)-2-oxobut-3-enoate aldolase (4.1.2.34)
- 401/02035 . . Propioin synthase (4.1.2.35)
- 401/02036 . . Lactate aldolase (4.1.2.36)
- 401/02037 . . Hydroxynitrilase (4.1.2.37) ([C12Y 401/02046](#), [C12Y 401/02047](#) take precedence)
- 401/02038 . . Benzoin aldolase (4.1.2.38)
- 401/0204 . . Tagatose-bisphosphate aldolase (4.1.2.40)
- 401/02041 . . Vanillin synthase (4.1.2.41)
- 401/02042 . . D-Threonine aldolase (4.1.2.42)
- 401/02043 . . 3-Hexulose-6-phosphate synthase (4.1.2.43)
- 401/02044 . . Benzoyl-CoA-dihydrodiol lyase (4.1.2.44)
- 401/02045 . . Trans-o-hydroxybenzylidenepyruvate hydratase-aldolase (4.1.2.45)
- 401/02046 . . Aliphatic (R)-hydroxynitrile lyase (4.1.2.46)

- 401/02047 . . (S)-Hydroxynitrile lyase (4.1.2.47)  
401/02048 . . Low-specificity L-threonine aldolase (4.1.2.48)  
401/02049 . . L-Allo-threonine aldolase (4.1.2.49)  
401/0205 . . 6-Carboxytetrahydropterin synthase (4.1.2.50)  
401/03 . . Oxo-acid-lyases (4.1.3)  
401/03001 . . Isocitrate lyase (4.1.3.1)  
401/03003 . . N-Acetylneuraminate lyase (4.1.3.3)  
401/03004 . . Hydroxymethylglutaryl-CoA lyase (4.1.3.4)  
401/03006 . . Citrate (pro-3S)-lyase (4.1.3.6)  
401/03013 . . Oxalomalate lyase (4.1.3.13)  
401/03014 . . L-Erythro-3-hydroxyaspartate aldolase (4.1.3.14)  
401/03016 . . 4-Hydroxy-2-oxoglutarate aldolase (4.1.3.16)  
401/03017 . . 4-Hydroxy-4-methyl-2-oxoglutarate aldolase (4.1.3.17)  
401/03022 . . Citramalate lyase (4.1.3.22)  
401/03024 . . Malyl-CoA lyase (4.1.3.24)  
401/03025 . . Citramalyl-CoA lyase (4.1.3.25)  
401/03026 . . 3-Hydroxy-3-isohexenylglutaryl-CoA lyase (4.1.3.26)  
401/03027 . . Anthranilate synthase (4.1.3.27)  
401/0303 . . Methylisocitrate lyase (4.1.3.30)  
401/03032 . . 2,3-Dimethylmalate lyase (4.1.3.32)  
401/03034 . . Citryl-CoA lyase (4.1.3.34)  
401/03035 . . (1-hydroxycyclohexan-1-yl)acetyl-CoA lyase (4.1.3.35)  
401/03036 . . 1,4-Dihydroxy-2-naphthoyl-CoA synthase (4.1.3.36)  
401/03038 . . Aminodeoxychorismate lyase (4.1.3.38)  
401/03039 . . 4-Hydroxy-2-oxovalerate aldolase (4.1.3.39)  
401/0304 . . Chorismate lyase (4.1.3.40)  
401/03041 . . 3-Hydroxy-D-aspartate aldolase (4.1.3.41)  
401/99 . . Other Carbon-Carbon Lyases (1.4.99)  
401/99001 . . Tryptophanase (4.1.99.1)  
401/99002 . . Tyrosine phenol-lyase (4.1.99.2)  
401/99003 . . Deoxyribodipyrimidine photo-lyase (4.1.99.3)  
401/99005 . . Octadecanal decarbonylase (4.1.99.5)  
401/99011 . . Benzylsuccinate synthase (4.1.99.11)  
401/99012 . . 3,4-Dihydroxy-2-butanone-4-phosphate synthase (4.1.99.12)  
401/99013 . . (6-4)DNA photolyase (4.1.99.13)  
401/99014 . . Spore photoproduct lyase (4.1.99.14)  
401/99016 . . Geosmin synthase (4.1.99.16)  
401/99017 . . Phosphomethylpyrimidine synthase (4.1.99.17)  
401/99018 . . Cyclic pyranopterin monophosphate synthase (4.1.99.18)  
401/99019 . . 2-Iminoacetate synthase (4.1.99.19)
- 402/00 Carbon-oxygen lyases (4.2)**  
402/01 . . Hydro-lyases (4.2.1)  
402/01001 . . Carbonate dehydratase (4.2.1.1), i.e. carbonic anhydrase  
402/01002 . . Fumarate hydratase (4.2.1.2)  
402/01003 . . Aconitate hydratase (4.2.1.3)  
402/01004 . . Citrate dehydratase (4.2.1.4)  
402/01005 . . Arabinonate dehydratase (4.2.1.5)  
402/01006 . . Galactonate dehydratase (4.2.1.6)  
402/01007 . . Altronate dehydratase (4.2.1.7)  
402/01008 . . Mannonate dehydratase (4.2.1.8)  
402/01009 . . Dihydroxy-acid dehydratase (4.2.1.9), i.e. acetohydroxyacid dehydratase  
402/0101 . . 3-Dehydroquininate dehydratase (4.2.1.10)  
402/01011 . . Phosphopyruvate hydratase (4.2.1.11), i.e. enolase  
402/01012 . . Phosphogluconate dehydratase (4.2.1.12)  
402/01017 . . Enoyl-CoA hydratase (4.2.1.17), i.e. crotonase  
402/01018 . . Methylglutaconyl-CoA hydratase (4.2.1.18)  
402/01019 . . Imidazoleglycerol-phosphate dehydratase (4.2.1.19)  
402/0102 . . Tryptophan synthase (4.2.1.20)  
402/01022 . . Cystathionine beta-synthase (4.2.1.22)  
402/01024 . . Porphobilinogen synthase (4.2.1.24)  
402/01025 . . L-Arabinonate dehydratase (4.2.1.25)  
402/01027 . . Acetylenecarboxylate hydratase (4.2.1.27)  
402/01028 . . Propanediol dehydratase (4.2.1.28)  
402/0103 . . Glycerol dehydratase (4.2.1.30)  
402/01031 . . Maleate hydratase (4.2.1.31)  
402/01032 . . L(+)-Tartrate dehydratase (4.2.1.32)  
402/01033 . . 3-Isopropylmalate dehydratase (4.2.1.33)  
402/01034 . . (S)-2-Methylmalate dehydratase (4.2.1.34)  
402/01035 . . (R)-2-Methylmalate dehydratase (4.2.1.35)  
402/01036 . . Homoaconitate hydratase (4.2.1.36)  
402/01039 . . Gluconate dehydratase (4.2.1.39)  
402/0104 . . Glucarate dehydratase (4.2.1.40)  
402/01041 . . 5-Dehydro-4-deoxyglucarate dehydratase (4.2.1.41)  
402/01042 . . Galactarate dehydratase (4.2.1.42)  
402/01043 . . 2-Dehydro-3-deoxy-L-arabinonate dehydratase (4.2.1.43)  
402/01044 . . Myo-inosose-2 dehydratase (4.2.1.44)  
402/01045 . . CDP-glucose 4,6-dehydratase (4.2.1.45)  
402/01046 . . dTDP-glucose 4,6-dehydratase (4.2.1.46)  
402/01047 . . GDP-mannose 4,6-dehydratase (4.2.1.47), i.e. GMD  
402/01048 . . D-Glutamate cyclase (4.2.1.48)  
402/01049 . . Urocanate hydratase (4.2.1.49)  
402/0105 . . Pyrazolylalanine synthase (4.2.1.50)  
402/01051 . . Prephenate dehydratase (4.2.1.51)  
402/01053 . . Oleate hydratase (4.2.1.53)  
402/01054 . . Lactoyl-CoA dehydratase (4.2.1.54)  
402/01055 . . 3-Hydroxybutyryl-CoA dehydratase (4.2.1.55)  
402/01056 . . Itaconyl-CoA hydratase (4.2.1.56)  
402/01057 . . Isohexenylglutaconyl-CoA hydratase (4.2.1.57)  
402/01059 . . 3-Hydroxyacyl-[acyl-carrier-protein] dehydratase (4.2.1.59)  
402/01062 . . 5-Alpha-hydroxysteroid dehydratase (4.2.1.62)  
402/01065 . . 3-Cyanoalanine hydratase (4.2.1.65)  
402/01066 . . Cyanide hydratase (4.2.1.66)  
402/01067 . . D-Fuconate dehydratase (4.2.1.67)  
402/01068 . . L-Fuconate dehydratase (4.2.1.68)  
402/01069 . . Cyanamide hydratase (4.2.1.69)  
402/0107 . . Pseudouridylyl synthase (4.2.1.70)  
402/01073 . . Protoaphin-aglucone dehydratase (cyclizing) (4.2.1.73)  
402/01074 . . Long-chain-enoyl-CoA hydratase (4.2.1.74)  
402/01075 . . Uroporphyrinogen-III synthase (4.2.1.75)  
402/01076 . . UDP-glucose 4,6-dehydratase (4.2.1.76)  
402/01077 . . Trans-L-3-hydroxyproline dehydratase (4.2.1.77)  
402/01078 . . (S)-norcochlorine synthase (4.2.1.78)  
402/01079 . . 2-Methylcitrate dehydratase (4.2.1.79)  
402/0108 . . 2-Oxopent-4-enoate hydratase (4.2.1.80)  
402/01081 . . D(-)-tartrate dehydratase (4.2.1.81)  
402/01082 . . Xylonate dehydratase (4.2.1.82)  
402/01083 . . 4-Oxalmesaconate hydratase (4.2.1.83)

- 402/01084 . . Nitrile hydratase (4.2.1.84)
- 402/01085 . . Dimethylmaleate hydratase (4.2.1.85)
- 402/01087 . . Octopamine dehydratase (4.2.1.87)
- 402/01088 . . Synephrine dehydratase (4.2.1.88)
- 402/01089 . . Carnitine dehydratase (4.2.1.89)
- 402/0109 . . L-Rhamnonate dehydratase (4.2.1.90)
- 402/01091 . . Arogenate dehydratase (4.2.1.91)
- 402/01092 . . Hydroperoxide dehydratase (4.2.1.92)
- 402/01093 . . ATP-dependent NAD(P)H-hydrate dehydratase (4.2.1.93)
- 402/01094 . . Scytalone dehydratase (4.2.1.94)
- 402/01095 . . Kievitone hydratase (4.2.1.95)
- 402/01096 . . 4a-Hydroxytetrahydrobiopterin dehydratase (4.2.1.96)
- 402/01097 . . Phaseollidin hydratase (4.2.1.97)
- 402/01098 . . 16-Alpha-hydroxyprogesterone dehydratase (4.2.1.98)
- 402/01099 . . 2-Methylisocitrate dehydratase (4.2.1.99)
- 402/011 . . Cyclohexa-1,5-dienecarbonyl-CoA hydratase (4.2.1.100)
- 402/01101 . . Trans-feruloyl-CoA hydratase (4.2.1.101)
- 402/01103 . . Cyclohexyl-isocyanide hydratase (4.2.1.103)
- 402/01104 . . Cyanase (4.2.1.104)
- 402/01105 . . 2-Hydroxyisoflavanone dehydratase (4.2.1.105)
- 402/01106 . . Bile-acid 7-alpha-dehydratase (4.2.1.106)
- 402/01107 . . 3-Alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase (4.2.1.107)
- 402/01108 . . Ectoine synthase (4.2.1.108)
- 402/01109 . . Methylthioribulose 1-phosphate dehydratase (4.2.1.109)
- 402/0111 . . Aldos-2-ulose dehydratase (4.2.1.110)
- 402/01111 . . 1,5-Anhydro-D-fructose dehydratase (4.2.1.111)
- 402/01112 . . Acetylene hydratase (4.2.1.112)
- 402/01113 . . o-Succinylbenzoate synthase (4.2.1.113)
- 402/01114 . . Methanogen homoaconitase (4.2.1.114)
- 402/01115 . . UDP-N-acetylglucosamine 4,6-dehydratase (inverting) (4.2.1.115)
- 402/01116 . . 3-Hydroxypropionyl-CoA dehydratase (4.2.1.116)
- 402/01117 . . 2-Methylcitrate dehydratase (2-methyl-trans-aconitate forming)(4.2.1.117)
- 402/01118 . . 3-Dehydroshikimate dehydratase (4.2.1.118)
- 402/01119 . . Enoyl-CoA hydratase 2 (4.2.1.119)
- 402/0112 . . 4-Hydroxybutanoyl-CoA dehydratase (4.2.1.120)
- 402/01121 . . Colneleate synthase (4.2.1.121)
- 402/01122 . . Tryptophan synthase (indole-salvaging) (4.2.1.122)
- 402/01123 . . Tetrahymanol synthase (4.2.1.123)
- 402/01124 . . Arabidiol synthase (4.2.1.124)
- 402/01125 . . Dammarenediol II synthase (4.2.1.125)
- 402/01126 . . N-Acetylmuramic acid 6-phosphate etherase (4.2.1.126)
- 402/01127 . . Linalool dehydratase (4.2.1.127)
- 402/01128 . . Lupan-3-beta,20-diol synthase (4.2.1.128)
- 402/01129 . . Squalene--hopanol cyclase (4.2.1.129)
- 402/0113 . . D-Lactate dehydratase (4.2.1.130)
- 402/01131 . . Carotenoid 1,2-hydratase (4.2.1.131)
- 402/01132 . . 2-Hydroxyhexa-2,4-dienoate hydratase (4.2.1.132)
- 402/01133 . . Copal-8-ol diphosphate hydratase (4.2.1.133)
- 402/01134 . . Very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase (4.2.1.134)
- 402/01135 . . UDP-N-acetylglucosamine 4,6-dehydratase (configuration-retaining) (4.2.1.135)
- 402/01136 . . ADP-dependent NAD(P)H-hydrate dehydratase (4.2.1.136)
- 402/01137 . . Sporulenol synthase (4.2.1.137)
- 402/02 . . acting on polysaccharides (4.2.2)
- 402/02001 . . Hyaluronate lyase (4.2.2.1)
- 402/02002 . . Pectate lyase (4.2.2.2)
- 402/02003 . . Poly(beta-D-mannuronate) lyase (4.2.2.3)
- 402/02004 . . Chondroitin ABC lyase (4.2.2.4), i.e. chondroitinase ([C12Y 402/0202](#), [C12Y 402/02021](#) take precedence)
- 402/02005 . . Chondroitin AC lyase (4.2.2.5)
- 402/02006 . . Oligogalacturonide lyase (4.2.2.6)
- 402/02007 . . Heparin lyase (4.2.2.7), i.e. heparinase I
- 402/02008 . . Heparin-sulfate lyase (4.2.2.8)
- 402/02009 . . Pectate disaccharide-lyase (4.2.2.9)
- 402/0201 . . Pectin lyase (4.2.2.10)
- 402/02011 . . Poly(alpha-L-guluronate) lyase (4.2.2.11), i.e. alginase II
- 402/02012 . . Xanthan lyase (4.2.2.12)
- 402/02013 . . Exo-(1->4)-alpha-D-glucan lyase (4.2.2.13)
- 402/02014 . . Glucuronan lyase (4.2.2.14)
- 402/02015 . . Anhydrosialidase (4.2.2.15)
- 402/02016 . . Levan fructotransferase (DFA-IV-forming) (4.2.2.16)
- 402/02017 . . Inulin fructotransferase (DFA-I-forming) (4.2.2.17)
- 402/02018 . . Inulin fructotransferase (DFA-III-forming) (4.2.2.18)
- 402/02019 . . Chondroitin B lyase (4.2.2.19)
- 402/0202 . . Chondroitin-sulfate-ABC endolyase (4.2.2.20)
- 402/02021 . . Chondroitin-sulfate-ABC exolyase (4.2.2.21)
- 402/02022 . . Pectate trisaccharide-lyase (4.2.2.22)
- 402/02023 . . Rhamnogalacturonan endolyase (4.2.2.23)
- 402/02024 . . Rhamnogalacturonan exolyase (4.2.2.24)
- 402/02025 . . Gellan lyase (4.2.2.25)
- 402/03 . . acting on phosphates (4.2.3)
- 402/03001 . . Threonine synthase (4.2.3.1)
- 402/03002 . . Ethanolamine-phosphate phospho-lyase (4.2.3.2)
- 402/03003 . . Methylglyoxal synthase (4.2.3.3)
- 402/03004 . . 3-Dehydroquininate synthase (4.2.3.4)
- 402/03005 . . Chorismate synthase (4.2.3.5)
- 402/03006 . . Trichodiene synthase (4.2.3.6)
- 402/03007 . . Pentalenene synthase (4.2.3.7)
- 402/03008 . . Casbene synthase (4.2.3.8)
- 402/03009 . . Aristolochene synthase (4.2.3.9)
- 402/0301 . . (-)-Endo-fenchol synthase (4.2.3.10)
- 402/03011 . . Sabinene-hydrate synthase (4.2.3.11)
- 402/03012 . . 6-Pyruvoyltetrahydropterin synthase (4.2.3.12)
- 402/03013 . . (+)-Delta-cadinene synthase (4.2.3.13)
- 402/03014 . . Pinene synthase (4.2.3.14) ([C12Y 402/03119](#) and [C12Y 402/0312](#) take precedence)
- 402/03015 . . Myrcene synthase (4.2.3.15)
- 402/03016 . . (4S)-Limonene synthase (4.2.3.16)
- 402/03017 . . Taxadiene synthase (4.2.3.17)
- 402/03018 . . Abieta-7,13-diene synthase (4.2.3.18)
- 402/03019 . . Ent-kaurene synthase (4.2.3.19)
- 402/0302 . . (R)-Limonene synthase (4.2.3.20)
- 402/03021 . . Vetispiradiene synthase (4.2.3.21)
- 402/03022 . . Germacradienol synthase (4.2.3.22)
- 402/03023 . . Germacrene-A synthase (4.2.3.23)

- 402/03024 . . Amorpha-4,11-diene synthase (4.2.3.24)  
 402/03025 . . S-Linalool synthase (4.2.3.25)  
 402/03026 . . R-Linalool synthase (4.2.3.26)  
 402/03027 . . Isoprene synthase (4.2.3.27)  
 402/03028 . . Ent-cassa-12,15-diene synthase (4.2.3.28)  
 402/03029 . . Ent-sandaracopimaradiene synthase (4.2.3.29)  
 402/0303 . . Ent-pimara-8(14),15-diene synthase (4.2.3.30)  
 402/03031 . . Ent-pimara-9(11),15-diene synthase (4.2.3.31)  
 402/03032 . . Levopimaradiene synthase (4.2.3.32)  
 402/03033 . . Stemar-13-ene synthase (4.2.3.33)  
 402/03034 . . Stemod-13(17)-ene synthase (4.2.3.34)  
 402/03035 . . Syn-pimara-7,15-diene synthase (4.2.3.35)  
 402/03036 . . Terpentetriene synthase (4.2.3.36)  
 402/03037 . . Epi-isozizaene synthase (4.2.3.37)  
 402/03038 . . Alpha-bisabolene synthase (4.2.3.38)  
 402/03039 . . Epi-cedrol synthase (4.2.3.39)  
 402/0304 . . (Z)-Gamma-bisabolene synthase (4.2.3.40)  
 402/03041 . . Elisabethatriene synthase (4.2.3.41)  
 402/03042 . . Aphidicolan-16-beta-ol synthase (4.2.3.42)  
 402/03043 . . Fusicocca-2,10(14)-diene synthase (4.2.3.43)  
 402/03044 . . Isopimara-7,15-diene synthase (4.2.3.44)  
 402/03045 . . Phyllocladan-16-alpha-ol synthase (4.2.3.45)  
 402/03046 . . Alpha-farnesene synthase (4.2.3.46)  
 402/03047 . . Beta-farnesene synthase (4.2.3.47)  
 402/03048 . . (3S,6E)-Nerolidol synthase (4.2.3.48)  
 402/03049 . . (3R,6E)-Nerolidol synthase (4.2.3.49)  
 402/0305 . . (+)-Alpha-santalene synthase ((2Z,6Z)-farnesyl diphosphate cyclizing)(4.2.3.50)  
 402/03051 . . Beta-phellandrene synthase (neryl-diphosphate-cyclizing) (4.2.3.51)  
 402/03052 . . (4S)-Beta-phellandrene synthase (geranyl-diphosphate-cyclizing) (4.2.3.52)  
 402/03053 . . (+)-Endo-beta-bergamotene synthase ((2Z,6Z)-farnesyl diphosphate cyclizing)(4.2.3.53)  
 402/03054 . . (-)-Endo-alpha-bergamotene synthase ((2Z,6Z)-farnesyl diphosphate cyclizing)(4.2.3.54)  
 402/03055 . . (S)-Beta-bisabolene synthase (4.2.3.55)  
 402/03056 . . Gamma-humulene synthase (4.2.3.56)  
 402/03057 . . Beta-caryophyllene synthase (4.2.3.57)  
 402/03058 . . Longifolene synthase (4.2.3.58)  
 402/03059 . . (E)-Gamma-bisabolene synthase (4.2.3.59)  
 402/0306 . . Germacrene C synthase (4.2.3.60)  
 402/03061 . . 5-Epiaristolochene synthase (4.2.3.61)  
 402/03062 . . (-)-Gamma-cadinene synthase ((2Z,6E)-farnesyl diphosphate cyclizing)(4.2.3.62)  
 402/03063 . . (+)-Cubenene synthase (4.2.3.63)  
 402/03064 . . (+)-Epicubenol synthase (4.2.3.64)  
 402/03065 . . Zingiberene synthase (4.2.3.65)  
 402/03066 . . Beta-selinene cyclase (4.2.3.66)  
 402/03067 . . Cis-muroladiene synthase (4.2.3.67)  
 402/03068 . . Beta-eudesmol synthase (4.2.3.68)  
 402/03069 . . (+)-Alpha-barbatene synthase (4.2.3.69)  
 402/0307 . . Patchoulol synthase (4.2.3.70)  
 402/03071 . . (E,E)-Germacrene B synthase (4.2.3.71)  
 402/03072 . . Alpha-gurjunene synthase (4.2.3.72)  
 402/03073 . . Valencene synthase (4.2.3.73)  
 402/03074 . . Presilhiperfolanol synthase (4.2.3.74)  
 402/03075 . . (-)-Germacrene D synthase (4.2.3.75)  
 402/03076 . . (+)-Delta-selinene synthase (4.2.3.76)  
 402/03077 . . (+)-Germacrene D synthase (4.2.3.77)  
 402/03078 . . Beta-chamigrene synthase (4.2.3.78)  
 402/03079 . . Thujopsene synthase (4.2.3.79)  
 402/0308 . . Alpha-longipinene synthase (4.2.3.80)  
 402/03081 . . Exo-alpha-bergamotene synthase (4.2.3.81)  
 402/03082 . . Alpha-santalene synthase (4.2.3.82)  
 402/03083 . . Beta-santalene synthase (4.2.3.83)  
 402/03084 . . 10-Epi-gamma-eudesmol synthase (4.2.3.84)  
 402/03085 . . Alpha-eudesmol synthase (4.2.3.85)  
 402/03086 . . 7-Epi-alpha-selinene synthase (4.2.3.86)  
 402/03087 . . Alpha-guaiene synthase (4.2.3.87)  
 402/03088 . . Viridiflorene synthase (4.2.3.88)  
 402/03089 . . (+)-Beta-caryophyllene synthase (4.2.3.89)  
 402/0309 . . 5-Epi-alpha-selinene synthase (4.2.3.90)  
 402/03091 . . Cubebol synthase (4.2.3.91)  
 402/03092 . . (+)-Gamma-cadinene synthase (4.2.3.92)  
 402/03093 . . Delta-guaiene synthase (4.2.3.93)  
 402/03094 . . Gamma-curcumene synthase (4.2.3.94)  
 402/03095 . . (-)-Alpha-cuprenene synthase (4.2.3.95)  
 402/03096 . . Avermitilol synthase (4.2.3.96)  
 402/03097 . . (-)-Delta-cadinene synthase (4.2.3.97)  
 402/03098 . . (+)-T-Muurolol synthase (4.2.3.98)  
 402/03099 . . Labdatriene synthase (4.2.3.99)  
 402/031 . . Bicyclogermacrene synthase (4.2.3.100)  
 402/03101 . . 7-Epi-sesquithujene synthase (4.2.3.101)  
 402/03102 . . Sesquithujene synthase (4.2.3.102)  
 402/03103 . . Ent-isokaurene synthase (4.2.3.103)  
 402/03104 . . Alpha-humulene synthase (4.2.3.104)  
 402/03105 . . Tricyclene synthase (4.2.3.105)  
 402/03106 . . (E)-Beta-ocimene synthase (4.2.3.106)  
 402/03107 . . (+)-Car-3-ene synthase (4.2.3.107)  
 402/03108 . . 1,8-Cineole synthase (4.2.3.108)  
 402/03109 . . (-)-Sabinene synthase (4.2.3.109)  
 402/0311 . . (+)-Sabinene synthase (4.2.3.110)  
 402/03111 . . (-)-Alpha-terpineol synthase (4.2.3.111)  
 402/03112 . . (+)-Alpha-terpineol synthase (4.2.3.112)  
 402/03113 . . Terpinolene synthase (4.2.3.113)  
 402/03114 . . Gamma-terpinene synthase (4.2.3.114)  
 402/03115 . . Alpha-terpinene synthase (4.2.3.115)  
 402/03116 . . (+)-Camphene synthase (4.2.3.116)  
 402/03117 . . (-)-Camphene synthase (4.2.3.117)  
 402/03118 . . 2-Methylisborneol synthase (4.2.3.118)  
 402/03119 . . (-)-Alpha-pinene synthase (4.2.3.119)  
 402/0312 . . (-)-Beta-pinene synthase (4.2.3.120)  
 402/03121 . . (+)-Alpha-pinene synthase (4.2.3.121)  
 402/03122 . . Beta-pinene synthase (4.2.3.122)  
 402/03123 . . Beta-sesquiphellandrene synthase (4.2.3.123)  
 402/03124 . . 2-Deoxy-scylo-inosose synthase (4.2.3.124)  
 402/03125 . . Alpha-muurolene synthase (4.2.3.125)  
 402/03126 . . Gamma-muurolene synthase (4.2.3.126)  
 402/03127 . . Beta-copaene synthase (4.2.3.127)  
 402/03128 . . Beta-cubebene synthase (4.2.3.128)  
 402/03129 . . (+)-Sativene synthase (4.2.3.129)  
 402/0313 . . Tetraprenyl-beta-curcumene synthase (4.2.3.130)  
 402/03131 . . Miltiradiene synthase (4.2.3.131)  
 402/03132 . . Neoabietadiene synthase (4.2.3.132)  
 402/03133 . . Alpha-copaene synthase (4.2.3.133)  
 402/03134 . . 5-Phosphonoxy-L-lysine phospho-lyase (4.2.3.134)  
 402/03135 . . DELTA6-protoilludene synthase (4.2.3.135)  
 402/03136 . . Alpha-isocumene synthase (4.2.3.136)  
 402/03137 . . (E)-2-Epi-beta-caryophyllene synthase (4.2.3.137)  
 402/03138 . . (+)-Epi-alpha-bisabolol synthase (4.2.3.138)

- 402/03139 . . Valerena-4,7(11)-diene synthase (4.2.3.139)  
 402/0314 . . Cis-abienol synthase (4.2.3.140)  
 402/99 . . Other carbon-oxygen lyases (4.2.99)  
 402/99006 . . Chondroitin sulfate lyase (4.2.99.6)  
 (C12Y 402/02005, C12Y 402/0202,  
 C12Y 402/02021 take precedence)  
 402/99012 . . Carboxymethylsuccinate lyase (4.2.99.12)  
 402/99018 . . DNA-(apurinic or apyrimidinic site)lyase  
 (4.2.99.18)  
 402/9902 . . 2-Succinyl-6-hydroxy-2,4-cyclohexadiene-1-  
 carboxylate synthase (4.2.99.20)  
 402/99021 . . Isochorismate lyase (4.2.99.21)
- 403/00 Carbon-nitrogen lyases (4.3)**  
 403/01 . . Ammonia-lyases (4.3.1)  
 403/01001 . . Aspartate ammonia-lyase (4.3.1.1), i.e. aspartase  
 403/01002 . . Methylaspartate ammonia-lyase (4.3.1.2)  
 403/01003 . . Histidine ammonia-lyase (4.3.1.3)  
 403/01004 . . Formimidoyltetrahydrofolate cyclodeaminase  
 (4.3.1.4)  
 403/01005 . . Phenylalanine ammonia-lyase (4.3.1.5)  
 (C12Y 403/01023 - C12Y 403/01025 takes  
 precedence)  
 403/01006 . . Beta-alanyl-CoA ammonia-lyase (4.3.1.6)  
 403/01007 . . Ethanolamine ammonia-lyase (4.3.1.7)  
 403/01009 . . Glucosaminatase ammonia-lyase (4.3.1.9)  
 403/0101 . . Serine-sulfate ammonia-lyase (4.3.1.10)  
 403/01012 . . Ornithine cyclodeaminase (4.3.1.12)  
 403/01013 . . Carbamoyl-serine ammonia-lyase (4.3.1.13)  
 403/01014 . . 3-Aminobutyryl-CoA ammonia-lyase (4.3.1.14)  
 403/01015 . . Diaminopropionate ammonia-lyase (4.3.1.15)  
 403/01016 . . Threo-3-hydroxy-L-aspartate ammonia-lyase  
 (4.3.1.16)  
 403/01017 . . L-Serine ammonia-lyase (4.3.1.17)  
 403/01018 . . D-Serine ammonia-lyase (4.3.1.18)  
 403/01019 . . Threonine ammonia-lyase (4.3.1.19)  
 403/0102 . . Erythro-3-hydroxy-L-aspartate ammonia-lyase  
 (4.3.1.20)  
 403/01022 . . 3,4-Dihydroxyphenylalanine reductive deaminase  
 (4.3.1.22)  
 403/01023 . . Tyrosine ammonia-lyase (4.3.1.23)  
 403/01024 . . Phenylalanine ammonia-lyase (4.3.1.24)  
 403/01025 . . Phenylalanine-tyrosine ammonia-lyase (4.3.1.25)  
 403/01026 . . Chromopyrrolate synthase (4.3.1.26)  
 403/01027 . . Threo-3-hydroxy-D-aspartate ammonia-lyase  
 (4.3.1.27)  
 403/01028 . . L-Lysine cyclodeaminase (4.3.1.28)  
 403/02 . . Amidine-lyases (4.3.2)  
 403/02001 . . Argininosuccinate lyase (4.3.2.1)  
 403/02002 . . Adenylosuccinate lyase (4.3.2.2)  
 403/02003 . . Ureidoglycolate lyase (4.3.2.3)  
 403/02004 . . Purine imidazole-ring cyclase (4.3.2.4)  
 403/02005 . . Peptidylamidoglycolate lyase (4.3.2.5)  
 403/02006 . . Gamma-L-glutamyl-butirosin B gamma-glutamyl  
 cyclotransferase (4.3.2.6)  
 403/03 . . Amine-lyases (4.3.3)  
 403/03001 . . 3-Ketovalidoxylamine C-N-lyase (4.3.3.1)  
 403/03002 . . Strictosidine synthase (4.3.3.2)  
 403/03003 . . Deacetylisopecoside synthase (4.3.3.3)  
 403/03004 . . Deacetylpecoside synthase (4.3.3.4)  
 403/03005 . . 4'-Demethylrebeccamycin synthase (4.3.3.5)  
 403/03006 . . Pyridoxal 5'-phosphate synthase (glutamine  
 hydrolyzing)(4.3.3.6)
- 403/03007 . . 4-Hydroxy-tetrahydrodipicolinate synthase  
 (4.3.3.7)  
 403/99 . . Other carbon-nitrogen lyases (4.3.99)  
 403/99002 . . Carboxybiotin decarboxylase (4.3.99.2)  
 403/99003 . . 7-Carboxy-7-deazaguanine synthase (4.3.99.3)
- 404/00 Carbon-sulfur lyases (4.4)**  
 404/01 . . Carbon-sulfur lyases (4.4.1)  
 404/01001 . . Cystathionine gamma-lyase (4.4.1.1)  
 404/01002 . . Homocysteine desulfhydrase (4.4.1.2)  
 404/01003 . . Dimethylpropiothetin dethiomethylase (4.4.1.3)  
 404/01004 . . Alliin lyase (4.4.1.4)  
 404/01005 . . Lactoylglutathione lyase (4.4.1.5)  
 404/01006 . . S-Alkylcysteine lyase (4.4.1.6)  
 404/01008 . . Cystathionine beta-lyase (4.4.1.8)  
 404/01009 . . L-3-Cyanoalanine synthase (4.4.1.9)  
 404/0101 . . Cysteine lyase (4.4.1.10)  
 404/01011 . . Methionine gamma-lyase (4.4.1.11)  
 404/01013 . . Cysteine-S-conjugate beta-lyase (4.4.1.13)  
 404/01014 . . 1-Aminocyclopropane-1-carboxylate synthase  
 (4.4.1.14)  
 404/01015 . . D-Cysteine desulfhydrase (4.4.1.15)  
 404/01016 . . Selenocysteine lyase (4.4.1.16)  
 404/01017 . . Holocytochrome-c synthase (4.4.1.17)  
 404/01019 . . Phosphosulfolactate synthase (4.4.1.19)  
 404/0102 . . Leukotriene-C4 synthase (4.4.1.20)  
 404/01021 . . S-Ribosylhomocysteine lyase (4.4.1.21)  
 404/01022 . . S-(Hydroxymethyl)glutathione synthase  
 (4.4.1.22)  
 404/01023 . . 2-Hydroxypropyl-CoM lyase (4.4.1.23)  
 404/01024 . . (2R)-Sulfolactate sulfo-lyase (4.4.1.24)  
 404/01025 . . L-Cysteate sulfo-lyase (4.4.1.25)  
 404/01026 . . Olivetolic acid cyclase (4.4.1.26)
- 405/00 Carbon-halide lyases (4.5)**  
 405/01 . . Carbon-halide lyases (4.5.1)  
 405/01001 . . DDT-dehydrochlorinase (4.5.1.1)  
 405/01002 . . 3-Chloro-D-alanine dehydrochlorinase (4.5.1.2)  
 405/01003 . . Dichloromethane dehalogenase (4.5.1.3)  
 405/01004 . . L-2-Amino-4-chloropent-4-enoate  
 dehydrochlorinase (4.5.1.4)  
 405/01005 . . S-Carboxymethylcysteine synthase (4.5.1.5)
- 406/00 Phosphorus-oxygen lyases (4.6)**  
 406/01 . . Phosphorus-oxygen lyases (4.6.1)  
 406/01001 . . Aodenylate cyclase (4.6.1.1)  
 406/01002 . . Guanylate cyclase (4.6.1.2)  
 406/01006 . . Cytidylate cyclase (4.6.1.6)  
 406/01012 . . 2-C-Methyl-D-erythritol 2,4-cyclodiphosphate  
 synthase (4.6.1.12)  
 406/01013 . . Phosphatidylinositol diacylglycerol-lyase  
 (4.6.1.13)  
 406/01014 . . Glycosylphosphatidylinositol diacylglycerol-lyase  
 (4.6.1.14)  
 406/01015 . . FAD-AMP lyase (cyclizing) (4.6.1.15)
- 499/00 Other lyases (4.99)**  
 499/01 . . Other lyases (4.99.1)  
 499/01001 . . Ferrochelatase (4.99.1.1)  
 499/01002 . . Alkylmercury lyase (4.99.1.2)  
 499/01003 . . Sirohydrochlorin cobaltochelatase (4.99.1.3)  
 499/01004 . . Sirohydrochlorin ferrochelatase (4.99.1.4)  
 499/01005 . . Aliphatic aldoxime dehydratase (4.99.1.5)  
 499/01006 . . Indoleacetaldoxime dehydratase (4.99.1.6)

- 499/01007 . . Phenylacetaldoxime dehydratase (4.99.1.7)  
 499/01008 . . Heme ligase (4.99.1.8)
- 501/00 Racemases and epimerases (5.1)**
- 501/01 . . acting on amino acids and derivatives (5.1.1)
- 501/01001 . . Alanine racemase (5.1.1.1)  
 501/01002 . . Methionine racemase (5.1.1.2)  
 501/01003 . . Glutamate racemase (5.1.1.3)  
 501/01004 . . Proline racemase (5.1.1.4)  
 501/01005 . . Lysine racemase (5.1.1.5)  
 501/01006 . . Threonine racemase (5.1.1.6)  
 501/01007 . . Diaminopimelate epimerase (5.1.1.7)  
 501/01008 . . 4-Hydroxyproline epimerase (5.1.1.8)  
 501/01009 . . Arginine racemase (5.1.1.9)  
 501/0101 . . Amino-acid racemase (5.1.1.10)  
 501/01011 . . Phenylalanine racemase (ATP-hydrolyzing) (5.1.1.11)  
 501/01012 . . Ornithine racemase (5.1.1.12)  
 501/01013 . . Aspartate racemase (5.1.1.13)  
 501/01014 . . Nocardicin-A epimerase (5.1.1.14)  
 501/01015 . . 2-Aminohexano-6-lactam racemase (5.1.1.15)  
 501/01016 . . Protein-serine epimerase (5.1.1.16)  
 501/01017 . . Isopenicillin-N epimerase (5.1.1.17)  
 501/01018 . . Serine racemase (5.1.1.18)
- 501/02 . . acting on hydroxy acids and derivatives (5.1.2)
- 501/02001 . . Lactate racemase (5.1.2.1)  
 501/02002 . . Mandelate racemase (5.1.2.2)  
 501/02003 . . 3-Hydroxybutyryl-CoA epimerase (5.1.2.3)  
 501/02004 . . Acetoin racemase (5.1.2.4)  
 501/02005 . . Tartrate epimerase (5.1.2.5)  
 501/02006 . . Isocitrate epimerase (5.1.2.6)
- 501/03 . . acting on carbohydrates and derivatives (5.1.3)
- 501/03001 . . Ribulose-phosphate 3-epimerase (5.1.3.1)  
 501/03002 . . UDP-glucose 4-epimerase (5.1.3.2), i.e. UDP-galactose 4-epimerase  
 501/03003 . . Aldose 1-epimerase (5.1.3.3)  
 501/03004 . . L-Ribulose-5-phosphate 4-epimerase (5.1.3.4)  
 501/03005 . . UDP-arabinose 4-epimerase (5.1.3.5)  
 501/03006 . . UDP-glucuronate 4-epimerase (5.1.3.6)  
 501/03007 . . UDP-N-acetylglucosamine 4-epimerase (5.1.3.7)  
 501/03008 . . N-Acylglucosamine 2-epimerase (5.1.3.8)  
 501/03009 . . N-Acylglucosamine-6-phosphate 2-epimerase (5.1.3.9)  
 501/0301 . . CDP-paratose 2-epimerase (5.1.3.10)  
 501/03011 . . Cellobiose epimerase (5.1.3.11)  
 501/03012 . . UDP-glucuronate 5'-epimerase (5.1.3.12)  
 501/03013 . . dTDP-4-dehydrorhamnose 3,5-epimerase (5.1.3.13)  
 501/03014 . . UDP-N-acetylglucosamine 2-epimerase (non-hydrolysing) (5.1.3.14)  
 501/03015 . . Glucose-6-phosphate 1-epimerase (5.1.3.15)  
 501/03016 . . UDP-glucosamine 4-epimerase (5.1.3.16)  
 501/03017 . . Heparosan-N-sulfate-glucuronate 5-epimerase (5.1.3.17)  
 501/03018 . . GDP-mannose 3,5-epimerase (5.1.3.18)  
 501/03019 . . Chondroitin-glucuronate 5-epimerase (5.1.3.19)  
 501/0302 . . ADP-glyceromanno-heptose 6-epimerase (5.1.3.20)  
 501/03021 . . Maltose epimerase (5.1.3.21)  
 501/03022 . . L-Ribulose-5-phosphate 3-epimerase (5.1.3.22)  
 501/03023 . . UDP-2,3-diacetamido-2,3-dideoxyglucuronic acid 2-epimerase (5.1.3.23)
- 501/03024 . . N-Acetylneuraminate epimerase (5.1.3.24)  
 501/03025 . . dTDP-L-rhamnose 4-epimerase (5.1.3.25)  
 501/99 . . acting on other compounds (5.1.99)  
 501/99001 . . Methylmalonyl-CoA epimerase (5.1.99.1)  
 501/99002 . . 16-Hydroxysteroid epimerase (5.1.99.2)  
 501/99003 . . Allantoin racemase (5.1.99.3)  
 501/99004 . . Alpha-methylacyl-CoA racemase (5.1.99.4)  
 501/99005 . . Hydantoin racemase (5.1.99.5)  
 501/99006 . . NAD(P)H-hydrate epimerase (5.1.99.6)
- 502/00 Cis-trans-isomerases (5.2)**
- 502/01 . . Cis-trans-Isomerases (5.2.1)
- 502/01001 . . Maleate isomerase (5.2.1.1)  
 502/01002 . . Maleylacetoacetate isomerase (5.2.1.2)  
 502/01003 . . Retinal isomerase (5.2.1.3) ([C12Y 101/013](#), [C12Y 101/01315](#), [C12Y 203/01135](#), [C12Y 301/01064](#) take precedence)  
 502/01004 . . Maleylpyruvate isomerase (5.2.1.4)  
 502/01005 . . Linoleate isomerase (5.2.1.5)  
 502/01006 . . Furylfuramide isomerase (5.2.1.6)  
 502/01008 . . Peptidylprolyl isomerase (5.2.1.8), i.e. cyclophilin  
 502/01009 . . Farnesol 2-isomerase (5.2.1.9)  
 502/0101 . . 2-Chloro-4-carboxymethylenebut-2-en-1,4-olide isomerase (5.2.1.10)  
 502/01012 . . Zeta-carotene isomerase (5.2.1.12)  
 502/01013 . . Prolycopene isomerase (5.2.1.13)  
 502/01014 . . Beta-carotene isomerase (5.2.1.14)
- 503/00 Intramolecular oxidoreductases (5.3)**
- 503/01 . . interconverting aldoses and ketoses (5.3.1)
- 503/01001 . . Triose-phosphate isomerase (5.3.1.1)  
 503/01003 . . Arabinose isomerase (5.3.1.3)  
 503/01004 . . L-Arabinose isomerase (5.3.1.4)  
 503/01005 . . Xylose isomerase (5.3.1.5)  
 503/01006 . . Ribose-5-phosphate isomerase (5.3.1.6)  
 503/01007 . . Mannose isomerase (5.3.1.7)  
 503/01008 . . Mannose-6-phosphate isomerase (5.3.1.8)  
 503/01009 . . Glucose-6-phosphate isomerase (5.3.1.9)  
 503/01012 . . Glucuronate isomerase (5.3.1.12)  
 503/01013 . . Arabinose-5-phosphate isomerase (5.3.1.13)  
 503/01014 . . L-Rhamnose isomerase (5.3.1.14)  
 503/01015 . . D-Lyxose ketol-isomerase (5.3.1.15)  
 503/01016 . . 1-(5-Phosphoribosyl)-5-((5-phosphoribosylamino)methylideneamino)imidazole-4-carboxamid (5.3.1.16)  
 503/01017 . . 5-Dehydro-4-deoxy-D-glucuronate isomerase (5.3.1.17)  
 503/01018 . . Glucose isomerase (5.3.1.18)  
 503/0102 . . Ribose isomerase (5.3.1.20)  
 503/01021 . . Corticosteroid side-chain-isomerase (5.3.1.21)  
 503/01022 . . Hydroxypyruvate isomerase (5.3.1.22)  
 503/01023 . . S-methyl-5-thioribose-1-phosphate isomerase (5.3.1.23), i.e. 5-methylthioribose-1-phosphate isomerase  
 503/01024 . . Phosphoribosylanthranilate isomerase (5.3.1.24)  
 503/01025 . . L-Fucose isomerase (5.3.1.25)  
 503/01026 . . Galactose-6-phosphate isomerase (5.3.1.26)  
 503/01027 . . 6-Phospho-3-hexuloisomerase (5.3.1.27)  
 503/01028 . . D-Sedoheptulose 7-phosphate isomerase (5.3.1.28)
- 503/02 . . interconverting keto- and enol-groups (5.3.2)
- 503/02001 . . Phenylpyruvate tautomerase (5.3.2.1)  
 503/02002 . . Oxaloacetate tautomerase (5.3.2.2)



- 503/02003 . . TDP-4-oxo-6-deoxy-alpha-D-glucose-3,4-oxoisomerase (dTDP-3-dehydro-6-deoxy-alpha-D-galactopyranose-forming) (5.3.2.3)
- 503/02004 . . TDP-4-oxo-6-deoxy-alpha-D-glucose-3,4-oxoisomerase (dTDP-3-dehydro-6-deoxy-alpha-D-glucopyranose-forming) (5.3.2.4)
- 503/02005 . . 2,3-Diketo-5-methylthiopentyl-1-phosphate enolase (5.3.2.5)
- 503/02006 . . 2-Hydroxyomuconate tautomerase (5.3.2.6)
- 503/03 . . transposing C=C bonds (5.3.3)
- 503/03001 . . Steroid DELTA-isomerase (5.3.3.1)
- 503/03002 . . Isopentenyl-diphosphate DELTA-isomerase (5.3.3.2)
- 503/03003 . . Vinylacetyl-CoA DELTA-isomerase (5.3.3.3)
- 503/03004 . . Muconolactone DELTA-isomerase (5.3.3.4)
- 503/03005 . . Cholestenol DELTA-isomerase (5.3.3.5)
- 503/03006 . . Methylitaconate DELTA-isomerase (5.3.3.6)
- 503/03007 . . Aconitate DELTA-isomerase (5.3.3.7)
- 503/03008 . . Dodecenoyl-CoA isomerase (5.3.3.8)
- 503/03009 . . Prostaglandin-A1 DELTA-isomerase (5.3.3.9)
- 503/0301 . . 5-Carboxymethyl-2-hydroxyomuconate DELTA-isomerase (5.3.3.10)
- 503/03011 . . Isopiperitenone DELTA-isomerase (5.3.3.11)
- 503/03012 . . L-Dopachrome isomerase (5.3.3.12)
- 503/03013 . . Polyenoic fatty acid isomerase (5.3.3.13)
- 503/03014 . . Trans-2-decenoyl-[acyl-carrier-protein] isomerase (5.3.3.14)
- 503/03015 . . Ascopyrone tautomerase (5.3.3.15)
- 503/03016 . . 4-Oxalomesaconate tautomerase (5.3.3.16)
- 503/03017 . . Trans-2,3-dihydro-3-hydroxyanthranilate isomerase (5.3.3.17)
- 503/03018 . . 2-(1,2-Epoxy-1,2-dihydrophenyl)acetyl-CoA isomerase (5.3.3.18)
- 503/04 . . transposing S-S bonds (5.3.4)
- 503/04001 . . Protein disulfide-isomerase (5.3.4.1), i.e. disulfide bond-forming enzyme
- 503/99 . . Other intramolecular oxidoreductases (5.3.99)
- 503/99002 . . Prostaglandin-D synthase (5.3.99.2)
- 503/99003 . . Prostaglandin-E synthase (5.3.99.3)
- 503/99004 . . Prostaglandin-I synthase (5.3.99.4)
- 503/99005 . . Thromboxane-A synthase (5.3.99.5)
- 503/99006 . . Allene-oxide cyclase (5.3.99.6)
- 503/99007 . . Styrene-oxide isomerase (5.3.99.7)
- 503/99008 . . Capsanthin/capsorubin synthase (5.3.99.8)
- 503/99009 . . Neoxanthin synthase (5.3.99.9)
- 503/9901 . . Thiazole tautomerase (5.3.99.10)
- 504/00 Intramolecular transferases (5.4)**
- 504/01 . . transferring acyl groups (5.4.1)
- 504/01001 . . Lysolecithin acylmutase (5.4.1.1)
- 504/01002 . . Precorrin-8X methylmutase (5.4.1.2)
- 504/02 . . Phosphotransferases (phosphomutases) (5.4.2)
- 504/02001 . . Phosphoglycerate mutase (5.4.2.1)
- 504/02002 . . Phosphoglucomutase (5.4.2.2)
- 504/02003 . . Phosphoacetylglucosamine mutase (5.4.2.3)
- 504/02004 . . Bisphosphoglycerate mutase (5.4.2.4)
- 504/02005 . . Phosphoglucomutase (glucose-cofactor) (5.4.2.5)
- 504/02006 . . Beta-phosphoglucomutase (5.4.2.6)
- 504/02007 . . Phosphopentomutase (5.4.2.7)
- 504/02008 . . Phosphomannomutase (5.4.2.8)
- 504/02009 . . Phosphoenolpyruvate mutase (5.4.2.9)
- 504/0201 . . Phosphoglucoamine mutase (5.4.2.10)
- 504/03 . . transferring amino groups (5.4.3)
- 504/03002 . . Lysine 2,3-aminomutase (5.4.3.2)
- 504/03003 . . Beta-lysine 5,6-aminomutase (5.4.3.3)
- 504/03004 . . D-Lysine 5,6-aminomutase (5.4.3.4)
- 504/03005 . . D-Ornithine 4,5-aminomutase (5.4.3.5)
- 504/03006 . . Tyrosine 2,3-aminomutase (5.4.3.6)
- 504/03007 . . Leucine 2,3-aminomutase (5.4.3.7)
- 504/03008 . . Glutamate-1-semialdehyde 2,1-aminomutase (5.4.3.8)
- 504/03009 . . Glutamate 2,3-aminomutase (5.4.3.9)
- 504/04 . . transferring hydroxy groups (5.4.4)
- 504/04001 . . (Hydroxyamino)benzene mutase (5.4.4.1)
- 504/04002 . . Isochorismate synthase (5.4.4.2)
- 504/04003 . . 3-(Hydroxyamino)phenol mutase (5.4.4.3)
- 504/04004 . . Geraniol isomerase (5.4.4.4)
- 504/04005 . . 9,12-Octadecadienoate 8-hydroperoxide 8R-isomerase (5.4.4.5)
- 504/04006 . . 9,12-Octadecadienoate 8-hydroperoxide 8S-isomerase (5.4.4.6)
- 504/99 . . transferring other groups (5.4.99)
- 504/99001 . . Methylaspartate mutase (5.4.99.1)
- 504/99002 . . Methylmalonyl-CoA mutase (5.4.99.2)
- 504/99003 . . 2-Acetolactate mutase (5.4.99.3)
- 504/99004 . . 2-Methyleneglutarate mutase (5.4.99.4)
- 504/99005 . . Chorismate mutase (5.4.99.5)
- 504/99007 . . Lanosterol synthase (5.4.99.7), i.e. oxidosqualene-lanosterol cyclase
- 504/99008 . . Cycloartenol synthase (5.4.99.8)
- 504/99009 . . UDP-galactopyranose mutase (5.4.99.9)
- 504/99011 . . Isomaltulose synthase (5.4.99.11)
- 504/99012 . . tRNA pseudouridine38-40 synthase (5.4.99.12)
- 504/99013 . . Isobutyryl-CoA mutase (5.4.99.13)
- 504/99014 . . 4-Carboxymethyl-4-methylbutenolide mutase (5.4.99.14)
- 504/99015 . . (1->4)-Alpha-D-glucan 1-alpha-D-glucosylmutase (5.4.99.15)
- 504/99016 . . Maltose alpha-D-glucosyltransferase (5.4.99.16)
- 504/99017 . . Squalene-hopene cyclase (5.4.99.17)
- 504/99018 . . 5-(Carboxyamino)imidazole ribonucleotide mutase (5.4.99.18)
- 504/99019 . . 16S rRNA pseudouridine516 synthase (5.4.99.19)
- 504/9902 . . 23S rRNA pseudouridine2457 synthase (5.4.99.20)
- 504/99021 . . 23S rRNA pseudouridine2604 synthase (5.4.99.21)
- 504/99022 . . 23S rRNA pseudouridine2605 synthase (5.4.99.22)
- 504/99023 . . 23S rRNA pseudouridine1911/1915/1917 synthase (5.4.99.23)
- 504/99024 . . 23S rRNA pseudouridine955/2504/2580 synthase (5.4.99.24)
- 504/99025 . . tRNA pseudouridine55 synthase (5.4.99.25)
- 504/99026 . . tRNA pseudouridine65 synthase (5.4.99.26)
- 504/99027 . . tRNA pseudouridine13 synthase (5.4.99.27)
- 504/99028 . . tRNA pseudouridine32 synthase (5.4.99.28)
- 504/99029 . . 23S rRNA pseudouridine746 synthase (5.4.99.29)
- 504/9903 . . UDP-arabinopyranose mutase (5.4.99.30)
- 504/99031 . . Thalianol synthase (5.4.99.31)
- 504/99032 . . Protostadienol synthase (5.4.99.32)
- 504/99033 . . Cucurbitadienol synthase (5.4.99.33)
- 504/99034 . . Germanicol synthase (5.4.99.34)
- 504/99035 . . Taraxerol synthase (5.4.99.35)
- 504/99036 . . Isomultiflorenol synthase (5.4.99.36)

- 504/99037 . . Dammaradiene synthase (5.4.99.37)  
 504/99038 . . Camelliol C synthase (5.4.99.38)  
 504/99039 . . Beta-amyrin synthase (5.4.99.39)  
 504/9904 . . Alpha-amyrin synthase (5.4.99.40)  
 504/99041 . . Lupeol synthase (5.4.99.41)  
 504/99042 . . tRNA pseudouridine31 synthase (5.4.99.42)  
 504/99043 . . 21S rRNA pseudouridine2819 synthase (5.4.99.43)  
 504/99044 . . Mitochondrial tRNA pseudouridine27/28 synthase (5.4.99.44)  
 504/99045 . . tRNA pseudouridine38/39 synthase (5.4.99.45)  
 504/99046 . . Shionone synthase (5.4.99.46)  
 504/99047 . . Parkeol synthase (5.4.99.47)  
 504/99048 . . Achilleol B synthase (5.4.99.48)  
 504/99049 . . Glutinol synthase (5.4.99.49)  
 504/9905 . . Friedelin synthase (5.4.99.50)  
 504/99051 . . Baccharis oxide synthase (5.4.99.51)  
 504/99052 . . Alpha-seco-amyrin synthase (5.4.99.52)  
 504/99053 . . Marneral synthase (5.4.99.53)  
 504/99054 . . Beta-seco-amyrin synthase (5.4.99.54)  
 504/99055 . . Delta amyrin synthase (5.4.99.55)  
 504/99056 . . Tirucalladienol synthase (5.4.99.56)  
 504/99057 . . Baruol synthase (5.4.99.57)  
 504/99058 . . Methylornithine synthase (5.4.99.58)
- 505/00 Intramolecular lyases (5.5)**  
 505/01 . . Intramolecular lyases (5.5.1)  
 505/01001 . . Muconate cycloisomerase (5.5.1.1)  
 505/01002 . . 3-Carboxy-cis,cis-muconate cycloisomerase (5.5.1.2)  
 505/01003 . . Tetrahydroxypteridine cycloisomerase (5.5.1.3)  
 505/01004 . . Inositol-3-phosphate synthase (5.5.1.4)  
 505/01005 . . Carboxy-cis,cis-muconate cyclase (5.5.1.5)  
 505/01006 . . Chalcone isomerase (5.5.1.6)  
 505/01007 . . Chloromuconate cycloisomerase (5.5.1.7)  
 505/01008 . . Bornyl diphosphate synthase (5.5.1.8)  
 505/01009 . . Cycloeucaleenol cycloisomerase (5.5.1.9)  
 505/0101 . . Alpha-pinene-oxide decyclase (5.5.1.10)  
 505/01011 . . Dichloromuconate cycloisomerase (5.5.1.11)  
 505/01012 . . Copalyl diphosphate synthase (5.5.1.12)  
 505/01013 . . Ent-copalyl diphosphate synthase (5.5.1.13)  
 505/01014 . . Syn-copalyl-diphosphate synthase (5.5.1.14)  
 505/01015 . . Terpentedieryl-diphosphate synthase (5.5.1.15)  
 505/01016 . . Halimadienyl-diphosphate synthase (5.5.1.16)  
 505/01017 . . (S)-Beta-macrocarpene synthase (5.5.1.17)  
 505/01018 . . Lycopene epsilon-cyclase (5.5.1.18)  
 505/01019 . . Lycopene beta-cyclase (5.5.1.19)  
 505/0102 . . Prosolanapyrone-III cycloisomerase (5.5.1.20)  
 505/01022 . . (-)-Bornyl diphosphate synthase (5.5.1.22)
- 599/00 Other isomerases (5.99)**  
 599/01 . . Other isomerases (5.99.1)  
 599/01001 . . Thiocyanate isomerase (5.99.1.1)  
 599/01002 . . DNA topoisomerase (5.99.1.2)  
 599/01003 . . DNA topoisomerase (ATP-hydrolysing) (5.99.1.3)  
 599/01004 . . 2-Hydroxychromene-2-carboxylate isomerase (5.99.1.4)
- 600/00 Ligases (6.)**
- 601/00 Ligases forming carbon-oxygen bonds (6.1)**  
 601/01 . . Ligases forming aminoacyl-tRNA and related compounds (6.1.1)  
 601/01001 . . Tyrosine-tRNA ligase (6.1.1.1)  
 601/01002 . . Tryptophan-tRNA ligase (6.1.1.2)  
 601/01003 . . Threonine-tRNA ligase (6.1.1.3)  
 601/01004 . . Leucine--tRNA ligase (6.1.1.4)  
 601/01005 . . Isoleucine-tRNA ligase (6.1.1.5)  
 601/01006 . . Lysine-tRNA ligase (6.1.1.6)  
 601/01007 . . Alanine--tRNA ligase (6.1.1.7)  
 601/01009 . . Valine--tRNA ligase (6.1.1.9)  
 601/0101 . . Methionine-tRNA ligase (6.1.1.10)  
 601/01011 . . Serine--tRNA ligase (6.1.1.11)  
 601/01012 . . Aspartate-tRNA ligase (6.1.1.12)  
 601/01013 . . D-Alanine--poly(phosphoribitol) ligase (6.1.1.13)  
 601/01014 . . Glycine-tRNA ligase (6.1.1.14)  
 601/01015 . . Proline--tRNA ligase (6.1.1.15)  
 601/01016 . . Cysteine-tRNA ligase (6.1.1.16)  
 601/01017 . . Glutamate-tRNA ligase (6.1.1.17)  
 601/01018 . . Glutamine--tRNA ligase (6.1.1.18)  
 601/01019 . . Arginine--tRNA ligase (6.1.1.19)  
 601/0102 . . Phenylalanine-tRNA ligase (6.1.1.20)  
 601/01021 . . Histidine-tRNA ligase (6.1.1.21)  
 601/01022 . . Asparagine-tRNA ligase (6.1.1.22)  
 601/01023 . . Aspartate--tRNA(Asn) ligase (6.1.1.23)  
 601/01024 . . Glutamate--tRNA(Gln) ligase (6.1.1.24)  
 601/01026 . . Pyrrolysine-tRNAPyl ligase (6.1.1.26)  
 601/01027 . . O-Phosphoserine--tRNA ligase (6.1.1.27)  
 601/02 . . Acid--alcohol ligases (ester synthases)(6.1.2)  
 601/02001 . . D-Alanine--(R)-lactate ligase (6.1.2.1)
- 602/00 Ligases forming carbon-sulfur bonds (6.2)**  
 602/01 . . Acid-Thiol Ligases (6.2.1)  
 602/01001 . . Acetate-CoA ligase (6.2.1.1)  
 602/01002 . . Butyrate-CoA ligase (6.2.1.2)  
 602/01003 . . Long-chain-fatty-acid-CoA ligase (6.2.1.3)  
 602/01004 . . Succinate-CoA ligase (GDP-forming) (6.2.1.4)  
 602/01005 . . Succinate-CoA ligase (ADP-forming) (6.2.1.5)  
 602/01006 . . Glutarate--CoA ligase (6.2.1.6)  
 602/01007 . . Chololate--CoA ligase (6.2.1.7)  
 602/01008 . . Oxalate--CoA ligase (6.2.1.8)  
 602/01009 . . Malate--CoA ligase (6.2.1.9)  
 602/0101 . . Acid--CoA ligase (GDP-forming) (6.2.1.10)  
 602/01011 . . Biotin--CoA ligase (6.2.1.11)  
 602/01012 . . 4-Coumarate-CoA ligase (6.2.1.12)  
 602/01013 . . Acetate--CoA ligase (ADP-forming) (6.2.1.13)  
 602/01014 . . 6-Carboxyhexanoate--CoA ligase (6.2.1.14)  
 602/01015 . . Arachidonate--CoA ligase (6.2.1.15)  
 602/01016 . . Acetoacetate-CoA ligase (6.2.1.16)  
 602/01017 . . Propionate--CoA ligase (6.2.1.17)  
 602/01018 . . Citrate--CoA ligase (6.2.1.18)  
 602/01019 . . Long-chain-fatty-acid--luciferin-component ligase (6.2.1.19)  
 602/0102 . . Long-chain-fatty-acid--[acyl-carrier-protein] ligase (6.2.1.20)  
 602/01022 . . [Citrate (pro-3S)-lyase] ligase (6.2.1.22)  
 602/01023 . . Dicarboxylate--CoA ligase (6.2.1.23)  
 602/01024 . . Phytanate--CoA ligase (6.2.1.24)  
 602/01025 . . Benzoate--CoA ligase (6.2.1.25)  
 602/01026 . . O-Succinylbenzoate-CoA ligase (6.2.1.26)  
 602/01027 . . 4-Hydroxybenzoate--CoA ligase (6.2.1.27)  
 602/01028 . . 3-Alpha,7-alpha-dihydroxy-5-beta-cholestanate--CoA ligase (6.2.1.28)  
 602/0103 . . Phenylacetate--CoA ligase (6.2.1.30)  
 602/01031 . . 2-Furoate--CoA ligase (6.2.1.31)

- 602/01032 . . Anthranilate--CoA ligase (6.2.1.32)  
602/01033 . . 4-Chlorobenzoate--CoA ligase (6.2.1.33)  
602/01034 . . Trans-feruloyl-CoA synthase (6.2.1.34)  
602/01035 . . ACP-SH:acetate ligase (6.2.1.35)  
602/01036 . . 3-Hydroxypropionyl-CoA synthase (6.2.1.36)  
602/01037 . . 3-Hydroxybenzoate--CoA ligase (6.2.1.37)  
602/01038 . . (2,2,3-Trimethyl-5-oxocyclopent-3-enyl)acetyl-CoA synthase (6.2.1.38)  
602/01039 . . [Butirosin acyl-carrier protein]—L-glutamate ligase (6.2.1.39)
- 603/00 Ligases forming carbon-nitrogen bonds (6.3)**
- 603/01 . . Acid-ammonia (or amine)ligases (amide synthases) (6.3.1)
- 603/01001 . . Aspartate--ammonia ligase (6.3.1.1)  
603/01002 . . Glutamate-ammonia ligase (6.3.1.2)  
603/01004 . . Aspartate--ammonia ligase (ADP-forming) (6.3.1.4)  
603/01005 . . NAD<sup>+</sup> synthase (6.3.1.5)  
603/01006 . . Glutamate--ethylamine ligase (6.3.1.6)  
603/01007 . . 4-Methyleneglutamate--ammonia ligase (6.3.1.7)  
603/01008 . . Glutathionylspermidine synthase (6.3.1.8)  
603/01009 . . Trypanothione synthase (6.3.1.9)  
603/0101 . . Adenosylcobinamide-phosphate synthase (6.3.1.10)  
603/01011 . . Glutamate--putrescine ligase (6.3.1.11)  
603/01012 . . D-Aspartate ligase (6.3.1.12)  
603/01013 . . L-Cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase (6.3.1.13)  
603/01014 . . Diphthine--ammonia ligase (6.3.1.14)
- 603/02 . . Acid—amino-acid ligases (peptide synthases)(6.3.2)
- 603/02001 . . Pantoate-beta-alanine ligase (6.3.2.1)  
603/02002 . . Glutamate-cysteine ligase (6.3.2.2)  
603/02003 . . Glutathione synthase (6.3.2.3)  
603/02004 . . D-Alanine-D-alanine ligase (6.3.2.4)  
603/02005 . . Phosphopantothenate--cysteine ligase (6.3.2.5)  
603/02006 . . Phosphoribosylaminoimidazolesuccinocarboxamide synthase (6.3.2.6)  
603/02007 . . UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--L-lysine ligase (6.3.2.7)  
603/02008 . . UDP-N-acetylmuramate-L-alanine ligase (6.3.2.8)  
603/02009 . . UDP-N-acetylmuramoyl-L-alanine-D-glutamate ligase (6.3.2.9)  
603/0201 . . UDP-N-acetylmuramoyl-tripeptide-D-alanyl-D-alanine ligase (6.3.2.10)  
603/02011 . . Carnosine synthase (6.3.2.11)  
603/02012 . . Dihydrofolate synthase (6.3.2.12)  
603/02013 . . UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-2,6-diaminopimelate ligase (6.3.2.13)  
603/02014 . . 2,3-Dihydroxybenzoate--serine ligase (6.3.2.14)  
603/02016 . . D-Alanine--alanyl-poly(glycerolphosphate) ligase (6.3.2.16)  
603/02017 . . Tetrahydrofolate synthase (6.3.2.17)  
603/02018 . . Gamma-glutamylhistamine synthase (6.3.2.18)  
603/02019 . . Ubiquitin-protein ligase (6.3.2.19), i.e. ubiquitin-conjugating enzyme  
603/0202 . . Indoleacetate--lysine synthetase (6.3.2.20)  
603/02021 . . Ubiquitin--calmodulin ligase (6.3.2.21)  
603/02023 . . Homoglutathione synthase (6.3.2.23)  
603/02024 . . Tyrosine--arginine ligase (6.3.2.24)  
603/02025 . . Tubulin-tyrosine ligase (6.3.2.25)
- 603/02026 . . N-(5-Amino-5-carboxypentanoyl)-L-cysteinyl-D-valine synthase (6.3.2.26)  
603/02028 . . L-Amino-acid alpha-ligase (6.3.2.28)  
603/02029 . . Cyanophycin synthase (L-aspartate-adding) (6.3.2.29)  
603/0203 . . Cyanophycin synthase (L-arginine-adding) (6.3.2.30)  
603/02031 . . Coenzyme F420-0:L-glutamate ligase (6.3.2.31)  
603/02032 . . Coenzyme gamma-F420-2:alpha-L-glutamate ligase (6.3.2.32)  
603/02033 . . Tetrahydrosarcinapterin synthase (6.3.2.33)  
603/02034 . . Coenzyme F420-1:gamma-L-glutamate ligase (6.3.2.34)  
603/02035 . . D-Alanine--D-serine ligase (6.3.2.35)  
603/02036 . . 4-Phosphopantoate--beta-alanine ligase (6.3.2.36)  
603/02037 . . UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--D-lysine ligase (6.3.2.37)  
603/02038 . . N2-Citryl-N6-acetyl-N6-hydroxylysine synthase (6.3.2.38)  
603/02039 . . Aerobactin synthase (6.3.2.39)
- 603/03 . . Cyclo-ligases (6.3.3)
- 603/03001 . . Phosphoribosylformylglycinamide cyclo-ligase (6.3.3.1)  
603/03002 . . 5-Formyltetrahydrofolate cyclo-ligase (6.3.3.2)  
603/03003 . . Dethiobiotin synthase (6.3.3.3)  
603/03004 . . (Carboxyethyl)arginine beta-lactam-synthase (6.3.3.4)
- 603/04 . . Other carbon-nitrogen ligases (6.3.4)
- 603/04001 . . GMP synthase (6.3.4.1)  
603/04002 . . CTP synthase (6.3.4.2)  
603/04003 . . Formate--tetrahydrofolate ligase (6.3.4.3)  
603/04004 . . Adenylosuccinate synthase (6.3.4.4)  
603/04005 . . Argininosuccinate synthase (6.3.4.5)  
603/04006 . . Urea carboxylase (6.3.4.6)  
603/04007 . . Ribose-5-phosphate--ammonia ligase (6.3.4.7)  
603/04008 . . Imidazoleacetate--phosphoribosyldiphosphate ligase (6.3.4.8)  
603/04009 . . Biotin--[methylmalonyl-CoA-carboxytransferase] ligase (6.3.4.9)  
603/0401 . . Biotin--[propionyl-CoA-carboxylase (ATP-hydrolyzing)] ligase (6.3.4.10)  
603/04011 . . Biotin--[methylcrotonoyl-CoA-carboxylase] ligase (6.3.4.11)  
603/04012 . . Glutamate--methylamine ligase (6.3.4.12)  
603/04013 . . Phosphoribosylamine-glycine ligase (6.3.4.13)  
603/04014 . . Biotin carboxylase (6.3.4.14)  
603/04015 . . Biotin-[acetyl-CoA-carboxylase] ligase (6.3.4.15)  
603/04016 . . Carbamoyl-phosphate synthase (ammonia) (6.3.4.16)  
603/04017 . . Formate--dihydrofolate ligase (6.3.4.17)  
603/04018 . . 5-(Carboxyamino)imidazole ribonucleotide synthase (6.3.4.18)  
603/04019 . . tRNA(Ile)-lysine synthetase (6.3.4.19)  
603/0402 . . 7-Cyano-7-deazaguanine synthase (6.3.4.20)
- 603/05 . . Carbon-nitrogen ligases with glutamine as amido-N-donor (6.3.5)
- 603/05001 . . NAD<sup>+</sup> synthase (glutamine-hydrolyzing) (6.3.5.1)  
603/05002 . . GMP synthase (glutamine-hydrolyzing) (6.3.5.2), i.e. glutamine amidotransferase  
603/05003 . . Phosphoribosylformylglycinamide synthase (6.3.5.3)

- 603/05004 . . Asparagine synthase (glutamine-hydrolyzing) (6.3.5.4)
- 603/05005 . . Carbamoyl-phosphate synthase (glutamine-hydrolysing) (6.3.5.5)
- 603/05006 . . Asparaginyl-tRNA synthase (glutamine-hydrolyzing) (6.3.5.6)
- 603/05007 . . Glutaminyl-tRNA synthase (glutamine-hydrolyzing) (6.3.5.7)
- 603/05009 . . Hydrogenobyric acid a,c-diamide synthase (glutamine-hydrolyzing) (6.3.5.9)
- 603/0501 . . Adenosylcobyric acid synthase (glutamine-hydrolyzing) (6.3.5.10)
- 603/05011 . . Cobyrylate a,c-diamide synthase (glutamine-hydrolyzing) (6.3.5.11)

**604/00 Ligases forming carbon-carbon bonds (6.4)**

- 604/01 . Ligases forming carbon-carbon bonds (6.4.1)
- 604/01001 . . Pyruvate carboxylase (6.4.1.1)
- 604/01002 . . Acetyl-CoA carboxylase (6.4.1.2)
- 604/01003 . . Propionyl-CoA carboxylase (6.4.1.3)
- 604/01004 . . Methylcrotonoyl-CoA carboxylase (6.4.1.4)
- 604/01005 . . Geranoyl-CoA carboxylase (6.4.1.5)
- 604/01006 . . Acetone carboxylase (6.4.1.6)
- 604/01007 . . 2-Oxoglutarate carboxylase (6.4.1.7)
- 604/01008 . . Acetophenone carboxylase (6.4.1.8)

**605/00 Ligases forming phosphoric ester bonds (6.5)**

- 605/01 . forming phosphoric ester bonds (6.5.1)
- 605/01001 . . DNA ligase (ATP) (6.5.1.1)
- 605/01002 . . DNA ligase (NAD<sup>+</sup>) (6.5.1.2)
- 605/01003 . . RNA ligase (ATP) (6.5.1.3)
- 605/01004 . . RNA-3'-phosphate cyclase (6.5.1.4)

**606/00 Ligases forming nitrogen-metal bonds (6.6)**

- 606/01 . forming coordination complexes (6.6.1)
- 606/01001 . . Magnesium chelatase (6.6.1.1)
- 606/01002 . . Cobaltochelataase (6.6.1.2)