AAS48511.1¦ [Fagopyrum esculentum]
AAK51494.1¦ [Triticum aestivum]
AAK51495.1¦ [Hordeum vulgare]
ZP 01195674.1¦ [Mycobacterium flavescens PYR-GCK]
EAS08013.1¦
NP 849470.1¦ [Arabidopsis thaliana] (identical to AT4g29740)
AAZ54098.1¦ [Thermobifida fusca YX]
AAM78001.1¦ [Streptomyces carzinostaticus subsp. neocarzinostaticus]
ABD09733.1¦ [Frankia sp. Ccl3]
YP 479462.1¦
XP 366189.1¦ [Magnaporthe grisea 70-15]
XP 384908.1¦ [Gibberella zeae PH-1]
EAA75691.1¦ XP 749210.1¦ [Aspergillus fumigatus Af293]
EAL87172.1¦ EAQ87374.1¦ [Chaetomium globosum CBS 148.51]
AAV70958.2¦ [Triticum aestivum]XP 384074.1¦ [Gibberella zeae PH-1]
EAA73366.1¦XP 660955.1¦ [Aspergillus nidulans FGSC A4]
EAA63319.1¦
Smo CKX7719787642 1 (not aligned)
BAE59774.1¦ [Aspergillus oryzae]
CAF19277.1¦ [Corynebacterium glutamicum ATCC 13032]
BAB97965.
were removed from this tree.

ZP_00593899 *Ralstonia metallidurans CH34* EAN54189 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00279902 *Burkholderia xenovorans LB400* COG0277: FAD/FMN-containing dehydrogenases
YP_523584 *Rhodoferax ferrireducens DSM 15236* ABD70053 FAD linked oxidase-like/FAD linked oxidase-like
ZP_01023191 *Polaromonas naphthalenivorans CJ2* EAQ18310 probable FAD/FMN-containing oxidoreductase /probable FAD/FMN-containing oxidoreductase
ZP_00508397 *Polaromonas sp. JS666* EAM37398 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00838600 *Shewanella sp. PV-4* EAP01439 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
NP_800145 *Vibrio parahaemolyticus RIMD 2210633* BAC61978 putative oxidoreductase, oxygen dependent, FAD-dependent protein/putative oxidoreductase, oxygen dependent, FAD-dependent protein
ZP_00764553 *Vibrio sp. Ex25* COG0277: FAD/FMN-containing dehydrogenases
YP_160879 *Azoarcus sp. EbN1* CAI09978 probable FAD/FMN-containing oxidoreductase /probable FAD/FMN-containing oxidoreductase
ZP_00961244 *Roseovarius nubinhibens ISM* EAP75484 probable oxidoreductase/probable oxidoreductase
YP_469861 *Rhizobium etli CFN 42* ABC91134 probable FAD-dependent oxidoreductase protein/probable FAD-dependent oxidoreductase protein
ZP_00612631 *Mesorhizobium sp. BNC1* EAN06713 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
NP_107295 *Mesorhizobium loti MAFF303099* BAB53081 probable oxidoreductase/probable oxidoreductase
NP_437782 *Sinorhizobium meliloti 1021* CAC49642 putative oxidoreductase, oxygen dependent, FAD-dependent protein/putative oxidoreductase, oxygen dependent, FAD-dependent protein
ZP_00776877 *Pseudoalteromonas atlantica T6c* EAO66537 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00508064 *Polaromonas sp. JS666* EAM37882 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00570724 *Frankia sp. EAN1pec* EAN15039 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
YP_480196 *Frankia sp. Ccl3* ABD10467 FAD linked oxidase-like/FAD linked oxidase-like
AAF81732 *Streptomyces maritimus* putative FAD-dependent oxygenase EncM
ZP_00522304 *Solibacter usitatus Ellin6076* EAM58729 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00410767 *Arthrobacter sp. FB24* EAL98219 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00600843 *Rubrobacter xylanophilus DSM 9941* EAN36121 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00508489 *Polaromonas sp. JS666* EAM37490 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00520679 *Solibacter usitatus Ellin6076* EAM60091 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
YP_298611 *Ralstonia eutropha JMP134* AAZ63767 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
YP_295847 *Ralstonia eutropha JMP134* AAZ61003 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
YP_356778 *Pelobacter carbinolicus DSM 2380* ABA88608 putative oxidoreductase, oxygen dependent, FAD-dependent protein/putative oxidoreductase, oxygen dependent, FAD-dependent protein
ZP_00655652 *Nocardioides sp. JS614* EAO09496 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
ZP_00597056 *Ralstonia metallidurans CH34* EAN50985 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
XP_382809 *Gibberella zeae PH-1* EAA69912 hypothetical protein FG02633.1/hypothetical protein FG02633.1
BAE62048 *Aspergillus oryzae* unnamed protein product
XP_682577 *Aspergillus nidulans FGSC A4* EAA66375 hypothetical protein AN9308.2/hypothetical protein AN9308.2
ZP_00599579 *Rubrobacter xylanophilus DSM 9941* EAN37405 (R)-6-hydroxynicotine oxidase/(R)-6-hydroxynicotine oxidase
ZP_00657044 *Nocardioides sp. JS614* EAO08098 FAD linked oxidase, N-terminal/FAD linked oxidase, N-terminal
1916346A *Arthrobacter oxydans* P08159 CAA29416 CAD47970 *Arthrobacter nicotinovorans* 1916346A 6-hydroxy-D-nicotine oxidase/HDNO_ARTOX 6-hydroxy-D-nicotine oxidase (6-HDNO)/6-hydroxy-D-nicotine oxidase /putative 6-hydroxy-D-nicotine oxidase
2BVH *Arthrobacter nicotinovorans 2BVH* 2BVH 2BVH 2BVG 2BVG 2BVG 2BVF 2BVF D Chain D, Crystal Structure Of 6-Hydoxy-D-Nicotine Oxidase From Arthrobacter Nicotinovorans. Crystal Form 2 (P21)/C Chain C, Crystal Structure Of 6-Hydoxy-D-Nicotine Oxidas
YP_094928 *Legionella pneumophila subsp. pneumophila str. Philadelphia 1* YP_123283 *Legionella pneumophila str. Paris* AAU26981 *Legionella pneumophila subsp. pneumophila str. Philadelphia 1* CAH12106 *Legionella pneumophila str. Paris* cytokinin oxid
YP_126284 *Legionella pneumophila str. Lens* CAH15159 hypothetical protein lpl0925/hypothetical protein
YP_325209 *Anabaena variabilis ATCC 29413* ABA24314 FAD linked oxidase-like/FAD linked oxidase-like
NP_484368 *Nostoc sp. PCC 7120* BAB72282 hypothetical protein all0324/all0324
P46377 *Rhodococcus fascians* CAA82745 FAS5_RHOFA Hypothetical 47.9 kDa oxidoreductase in fasciation locus (ORF5)/unnamed protein product
AAW49304 *Streptomyces turgidiscabies* cytokinin oxidase
XP_482794 *Oryza sativa* (japonica cultivar-group) BAD09964 putative cytokinin dehydrogenase/putative cytokinin dehydrogenase
CAE05712 *Oryza sativa* (japonica cultivar-group) OSJNBb0065J09.8
NP_922039 *Oryza sativa* (japonica cultivar-group) AAM91887 AAP54326 putative cytokinin oxidase/putative cytokinin oxidase /cytokinin oxidase, putative
NP_913145 *Oryza sativa* (japonica cultivar-group) BAB56095 BAB89407 BAE16612 putative cytokinin oxidase/putative cytokinin oxidase /cytokinin oxidase/dehydrogenase
Q9T0N8 *Zea mays* AAC27500 CKX1_MAIZE Cytokinin dehydrogenase 1 precursor (Cytokinin oxidase 1) (CKO 1) (COX 1) (ZmCKX1)/cytokinin oxidase
1W1S *Zea mays* 1W1R 1W1Q 1W1O A Chain A, Plant Cytokinin Dehydrogenase In Complex With Benzylaminopurine/A Chain A, Plant Cytokinin Dehydrogenase In Complex With Trans-Zeatin /A Chain A, Plant Cytokinin Dehydrogenase In Complex With Isopentenyladenine
CAA77151 *Zea mays* cytokinin oxidase
NP_914526 *Oryza sativa* (japonica cultivar-group) Q9LDE6 *Oryza sativa* unnamed protein product/CKX1_ORYSA Probable cytokinin dehydrogenase precursor (Cytokinin oxidase) (CKO)
CAC17752 *Dendrobium cv. 'Sonia'* CAC17753 cytokinin oxidase/cytokinin oxidase
BAD61835 *Oryza sativa* (japonica cultivar-group) BAD61939 putative cytokinin oxidase/putative cytokinin oxidase
XP_464684 *Oryza sativa* (japonica cultivar-group) BAD17196 BAD17609 putative cytokinin dehydrogenase 1 precursor/putative cytokinin dehydrogenase 1 precursor /putative cytokinin dehydrogenase 1 precursor
XP_464685 *Oryza sativa* (japonica cultivar-group) BAD17197 BAD17610 putative cytokinin dehydrogenase 1 precursor/putative cytokinin dehydrogenase 1 precursor /putative cytokinin dehydrogenase 1 precursor
AT4G29740 = NP_194703 Q9FUJ2 CAB45334 CAB79732 AAG30907 AAK96652 AAN15498 CKX4 (CYTOKININ OXIDASE 4); cytokinin oxidase/CKX4_ARATH Cytokinin dehydrogenase 4 precursor (Cytokinin oxidase 4) (CKO 4) (AtCKX4)/cytokinin oxidase-like protein /cytokinin o
AAG30905 *Arabidopsis thaliana* cytokinin oxidase
AT2G19500 = NP_565455 Q9FUJ3 E84577 AAD10149 AAO64073 CKX2 (CYTOKININ OXIDASE 2); cytokinin oxidase/CKX2_ARATH Cytokinin dehydrogenase 2 precursor (Cytokinin oxidase 2) (CKO 2) (AtCKX2)/E84577 probable cytokinin oxidase /putative cytokinin
AT5G56970 = NP_200507 Q9LTS3 BAA97027 AAG30906 CKX3 (CYTOKININ OXIDASE 3); cytokinin oxidase/CKX3_ARATH Cytokinin dehydrogenase 3 precursor (Cytokinin oxidase 3) (CKO 3) (AtCKX3)/cytokinin oxidase /cytokinin oxidase
AT1G75450 = NP_177678 Q67YU0 AAG13068 AAG30909 BAD44111 CKX6 (CYTOKININ OXIDASE 6); cytokinin oxidase/CKX5_ARATH Cytokinin dehydrogenase 5 precursor (Cytokinin oxidase 5) (CKO5) (AtCKX5) (AtCKX6)/Similar to cytokinin oxidase /cytokinin oxidase /cyto
NP_916348 *Oryza sativa* (japonica cultivar-group) BAD53232 BAD52957 putative cytokinin oxidase/putative cytokinin oxidase /putative cytokinin oxidase
Ppa_CKX7_8_1
Ppa_CKX7_1_1
Ppa_CKX7_10_1
Ppa_CKX7_5_1
Ppa_CKX7_12_1
Ppa_CKX7_7_1
Smo_CKX7_2_1
Smo_CKX7_1_1
AT3G63440 = NP_191903 Q9LY71 CAB87797 cytokinin oxidase/CKX6_ARATH Cytokinin dehydrogenase 6 precursor (Cytokinin oxidase 6) (CKO6) (AtCKX6) (AtCKX7)/cytokinin oxidase-like protein
AT2G41510 = NP_181682 O22213 AAB84333 cytokinin oxidase/CKX1_ARATH Cytokinin dehydrogenase 1 precursor (Cytokinin oxidase 1) (CKO 1) (AtCKX1)/putative cytokinin oxidase
AAO50082 *Hordeum vulgare* cytokinin dehydrogenase 3
AAN16383 *Hordeum vulgare* AAM08400 cytokinin dehydrogenase 2/cytokinin dehydrogenase 2
XP_475155 *Oryza sativa* (japonica cultivar-group) AAT01339 AAT58842 putative cytokinin dehydrogenase/putative cytokinin dehydrogenase /putative cytokinin dehydrogenase
CAE55200 *Zea mays* cytokinin oxidase 2
CAE55202 *Zea mays* cytokinin oxidase 3
CAE55201 *Zea mays* cytokinin oxidase 3
XP_463696 *Oryza sativa* (japonica cultivar-group) BAD87612 putative cytokinin oxidase/putative cytokinin dehydrogenase
Smo_CKX7_3_1
AT5G21482 = NP_850863 Q9FUJ1 2EXR AAG30908 AAO73882 oxidoreductase/CKX7_ARATH Cytokinin dehydrogenase 7 (Cytokinin oxidase 7) (CKO7) (AtCKX7) (AtCKX5)/A Chain A, X-Ray Structure Of Cytokinin OxidaseDEHYDROGENASE (CKX) From Arabidopsis Thaliana At5g2

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