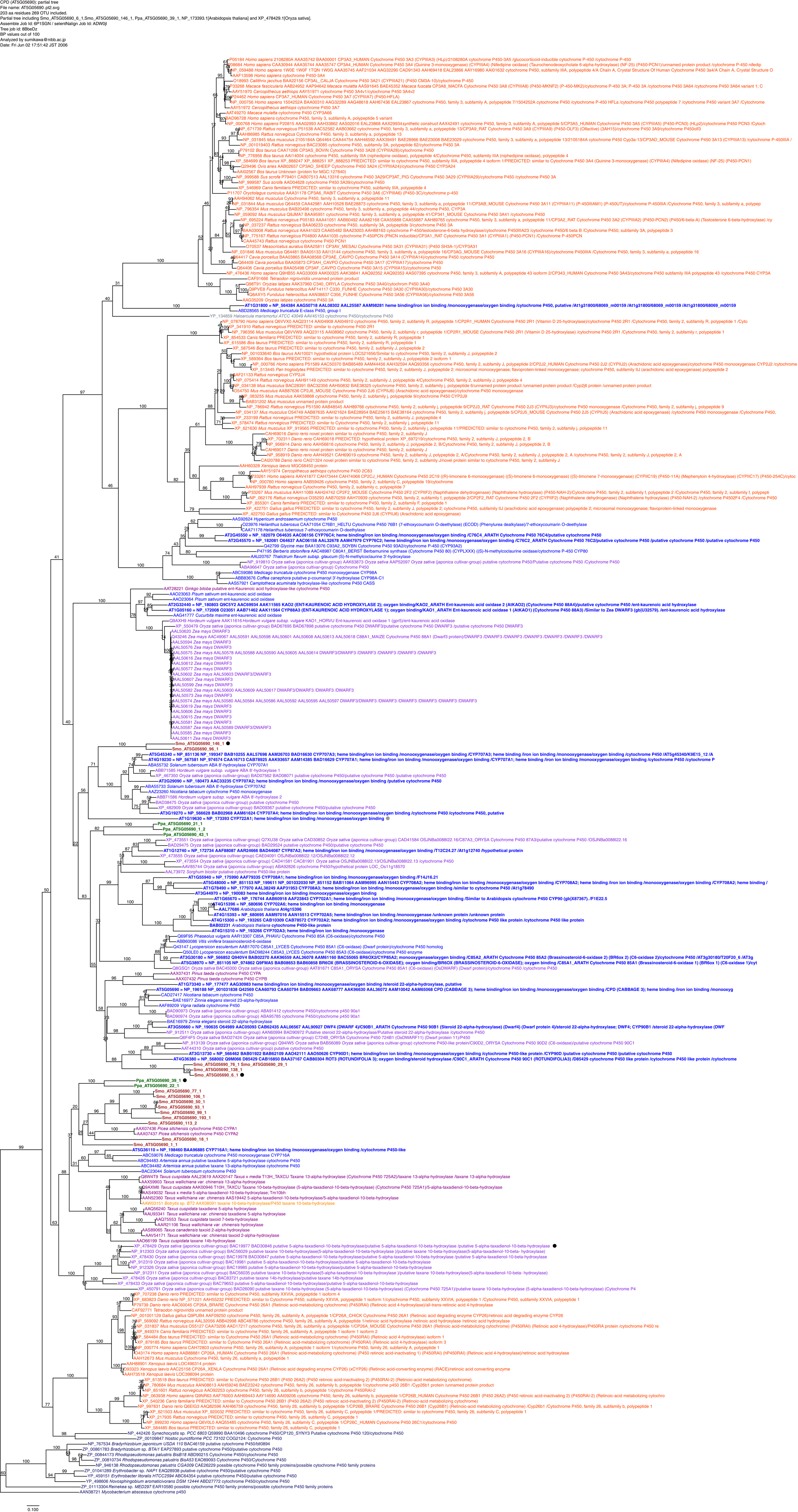
CPD (AT5G05690): partial tree
File name: AT5G05690.pt2.svg
203 aa residues 269 OTU included.
Partial tree including Smo_AT5G05690_6_1,Smo_AT5G05690_146_1, Ppa_AT5G05690_39_1, NP_173393.1[Arabidopsis thaliana] and XP_478429.1[Oryza sativa].
Assemble Job Id: 6F1SGN / selenNallign Job Id: ADW0jl
Tree job id: 8BbeDz
BP values out of 100
Analyzed by sumikawa@nibb.ac.jp
Date: Fri Jun 02 17:51:42 JST 2006


P05184 Homo sapiens 2108280A AAA35742 BAA00001 CP3A3_HUMAN Cytochrome P450 3A3 (CYPIIIA3) (HLp)/2108280A cytochrome P450-3A5 /glucocorticoid-inducible cytochrome P-450 /cytochrome P-450
P08684 Homo sapiens CAA30944 AAA35744 AAA35747 CP3A4_HUMAN Cytochrome P450 3A4 (Quinine 3-monooxygenase) (CYPIIIA4) (Nifedipine oxidase) (Taurochenodeoxycholate 6-alpha-hydroxylase) (NF-25) (P450-PCN1)/unnamed protein product /cytochrome P-450 nifedip
NP_059488 Homo sapiens 1W0E 1W0F 1TQN 1W0G AAA35745 AAF21034 AAG32290 CAD91343 AAH69418 EAL23866 AAY16980 AAI01632 cytochrome P450, subfamily IIIA, polypeptide 4/A Chain A, Crystal Structure Of Human Cytochrome P450 3a4/A Chain A, Crystal Structure O
AAF13598 Homo sapiens cytochrome P450-3A4
O18993 Callithrix jacchus BAA32156 CP3AL_CALJA Cytochrome P450 3A21 (CYPIIIA21) (P450 CM3A-10)/cytochrome P-450
P33268 Macaca fascicularis AAB24932 AAP94642 Macaca mulatta AAS91645 BAE54352 Macaca fuscata CP3A8_MACFA Cytochrome P450 3A8 (CYPIIIA8) (P450-MKNF2) (P-450-MK2)/cytochrome P-450 3A; P-450 3A cytochrome P450 3A64 /cytochrome P450 3A64 variant 1; C
AAY51970 Cercopithecus aethiops AAY51971 cytochrome P450 3A4v1/cytochrome P450 3A4v2
Q29462 Homo sapiens CP3A7_HUMAN Cytochrome P450 3A7 (CYPIIIA7) (P450-HFLA)
NP_000756 Homo sapiens 1504252A BAA00310 AAG32289 AAG48618 AAH67436 EAL23867 cytochrome P450, family 3, subfamily A, polypeptide 7/1504252A cytochrome P450 /cytochrome P-450 HFLa /cytochrome P450, subfamily IIIA, polypeptide 7 /cytochrome P450 variant 3A7 /Cytochrome
AAY51972 Cercopithecus aethiops cytochrome P450 3A7
AAT49270 Macaca mulatta cytochrome P450 CYP3A66
BAD96728 Homo sapiens cytochrome P450, family 3, subfamily A, polypeptide 5 variant
NP_000768 Homo sapiens P20815 AAA02993 AAH33862 AAS02016 EAL23868 AAX29934 synthetic construct AAX42491 cytochrome P450, family 3, subfamily A, polypeptide 5/CP3A5_HUMAN Cytochrome P450 3A5 (CYPIIIA5) (P450-PCN2) (HLp2)/cytochrome P450 PCN3 /Cytoch
gi|6715739 Rattus norvegicus P15138 AAC52582 AAB03662 cytochrome P450, family 3, subfamily a, polypeptide 13/CP3A9_RAT Cytochrome P450 3A9 (CYPIIIA9) (P450-OLF3) (Olfactive) (3AH13)/cytochrome P450 3A8/cytochrome P450of3
AAH86985 Rattus norvegicus Cytochrome P450, family 3, subfamily a, polypeptide 13
AAP_051845 Mus musculus 21051840A Q64464 Q64475A AAH46592 AAK39491 BAE28966 BAE23008 BAE23029 cytochrome P450, family 3, subfamily a, polypeptide 13/21051840A cytochrome P450 Cyp3a-13/CP3AD_MOUSE Cytochrome P450 3A13 (CYPIIIA13) /cytochrome P-450IIIA /
NP_001019403 Rattus norvegicus BAC23085 cytochrome P450, subfamily 3A, polypeptide 62/cytochrome P450 3A
P79102 Bos taurus CAA71266 CP3AS_BOVIN Cytochrome P450 3A28 (CYPIIIA28)/cytochrome P450
NP_776856 Bos taurus AAI14004 cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4/Cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4
XP_584699 Bos taurus XP_888247 XP_888251 XP_888253 PREDICTED: similar to cytochrome P450, subfamily IIIA, polypeptide 4 isoform 1/PREDICTED: similar to Cytochrome P450 3A4 (Quinine 3-monooxygenase) (CYPIIIA4) (Nifedipine oxidase) (NF-25) (P450-PCN1)
Q29496 Ovis aries AAB02657 CP3AO_SHEEP Cytochrome P450 3A24 (CYPIIIA24)/cytochrome P450 CYP3A24
AAI02567 Bos taurus Unknown (protein for MGC:127840)
NP_999588 Sus scrofa P79401 CAB07513 AAL13316 cytochrome P450 3A29/CP3AT_PIG Cytochrome P450 3A29 (CYPIIIA29)/cytochrome P450 /cytochrome P450 3A
NP_999587 Sus scrofa AAD04628 cytochrome P450 3A39/cytochrome P450
XP_546968 Canis familiaris PREDICTED: similar to cytochrome P450, subfamily IIIA, polypeptide 4
P11707 Oryctolagus cuniculus AAA31178 CP3A6_RABIT Cytochrome P450 3A6 (CYPIIIA6) (P450-3C)/cytochrome p-450
AAH94062 Mus musculus Cytochrome P450, family 3, subfamily a, polypeptide 11
NP_031844 Mus musculus Q64459 CAA42981 AAH10029 BAB28873 cytochrome P450, family 3, subfamily a, polypeptide 11/CP3AB_MOUSE Cytochrome P450 3A11 (CYPIIIA11) (P-450IIIAM1) (P-450UT)/cytochrome P-450IIIA /Cytochrome P450, family 3, subfamily a, polypep
NP_796354 Mus musculus BAB20498 cytochrome P450, family 3, subfamily a, polypeptide 44/cytochrome P450, CYP3A
NP_059092 Mus musculus Q9JIM4? BAA85951 cytochrome P450, family 3, subfamily a, polypeptide 41/CP3A1_MOUSE Cytochrome P450 3A41 /cytochrome P450
NP_695224 Rattus norvegicus P05183 AAA41051 AAB03662 AAB52168 CAA55857 AAH89765 cytochrome P450, family 3, subfamily a, polypeptide 11/CP3A2_RAT Cytochrome P450 3A2 (CYPIIIA2) (P450-PCN2) (P450/6-beta-A) (Testosterone 6-beta-hydroxylase) /cy
NP_037237 Rattus norvegicus BAA06233 cytochrome P450, subfamily 3A, polypeptide 3/cytochrome P450 3A
BAA03008 Rattus norvegicus AAA41023 CAA65482 BAA23003 AAH88163 cytochrome P-450/testosterone-6-beta hydroxylase/cytochrome P450IIIA23 /cytochrome P450/6 beta B /Cytochrome P450, subfamily 3A, polypeptide 3
NP_775167 Rattus norvegicus P04800 AAA41038 cytochrome P-450PCN (PNCN inducible)/CP3A1_RAT Cytochrome P450 3A1 (CYPIIIA1) (P450-PCN1) /Cytochrome P-450PCN
CAA45743 Rattus norvegicus cytochrome P450 PCN1
O70537 Mesocricetus auratus BAA25811 CP3AY_MESAU Cytochrome P450 3A31 (CYPIIIA31) (P450 SH3A-1)/CYP3A31
NP_031846 Mus musculus Q64481 BAA05133 AAI13144 cytochrome P450, family 3, subfamily a, polypeptide 16/CP3AG_MOUSE Cytochrome P450 3A16 (CYPIIIA16)/cytochrome P450IIIA /Cytochrome P450, family 3, subfamily a, polypeptide 16
Q64417 Cavia porcellus BAA03865 BAA08568 CP3AE_CAVPO Cytochrome P450 3A14 (CYPIIIA14)/cytochrome P450 /cytochrome P450
Q64409 Cavia porcellus BAA05873 CP3AH_CAVPO Cytochrome P450 3A17 (CYPIIIA17)/cytochrome P450
Q64406 Cavia porcellus BAA05498 CP3AF_CAVPO Cytochrome P450 3A15 (CYPIIIA15)/cytochrome P450
NP_476436 Homo sapiens Q9HB55 AAG33009 AAK00325 AAK38841 AAQ92352 AAQ92353 AAS07395 cytochrome P450, family 3, subfamily A, polypeptide 43 isoform 2/CP3A43_HUMAN Cytochrome P450 3A43/cytochrome P450 subfamily IIIA polypeptide 43 /cytochrome P450 CYP3A
CAB71666 Tetraodon nigroviridis unnamed protein product
Q98T91 Oryzias latipes AAK37960 C340_ORYLA Cytochrome P450 3A40/cytochrome P450 3A40
Q9PVE8 Fundulus heteroclitus AAF14117 C330_FUNHE Cytochrome P450 3A30 (CYPIIIA30)/cytochrome P450 3A30
Q9AXY5 Fundulus heteroclitus AAN39837 C356_FUNHE Cytochrome P450 3A56 (CYPIIIA56)/cytochrome P450 3A56
AAG35209 Oryzias latipes cytochrome P450 3A
AT1G31800 = NP_564384 AAC50718 AAL08302 AAL25587 AAM98281 heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450, putative /At1g31800/68069_m00159 /At1g31800/68069_m00159 /At1g31800/68069_m00159
ABD28565 Medicago truncatula E-class P450, group I
YP_134859 Haloarcula marismortui ATCC 43049 AAV45153 cytochrome P450/cytochrome P450
NP_078790 Homo sapiens Q6VVX0 AAQ23114 AAI04908 AAI04910 cytochrome P450, family 2, subfamily R, polypeptide 1/CP2R1_HUMAN Cytochrome P450 2R1 (Vitamin D 25-hydroxylase) /cytochrome P450 2R1 /Cytochrome P450, family 2, subfamily R, polypeptide 1 /Cyto
NP_341910 Rattus norvegicus PREDICTED: similar to cytochrome P450 2R1
NP_796356 Mus musculus Q6VVW9 AAQ23115 AAI08962 cytochrome P450, family 2, subfamily r, polypeptide 1/CP2R1_MOUSE Cytochrome P450 2R1 (Vitamin D 25-hydroxylase) /cytochrome P450 2R1 /Cytochrome P450, family 2, subfamily r, polypeptide 1
XP_854533 Canis familiaris PREDICTED: similar to cytochrome P450, family 2, subfamily R, polypeptide 1
XP_615586 Bos taurus PREDICTED: similar to cytochrome P450, family 2, subfamily R, polypeptide 1
XP_587546 Bos taurus PREDICTED: similar to cytochrome P450, family 2, subfamily J, polypeptide 2
NP_001033640 Bos taurus AAI10021 hypothetical protein LOC521656/Similar to Cytochrome P450, family 2, subfamily J, polypeptide 2
XP_589364 Bos taurus PREDICTED: similar to cytochrome P450, family 2, subfamily J, polypeptide 2 isoform 1
NP_000766 Homo sapiens P51589 AAC50370 BAB85489 AAM44456 AAH32594 AAQ93356 cytochrome P450, family 2, subfamily J, polypeptide 2/CP2J2_HUMAN Cytochrome P450 2J2 (CYPIIJ2) (Arachidonic acid epoxygenase)/cytochrome P450 monooxygenase CYP2J2 /cytochrome
NP_513445 Pan troglodytes PREDICTED: similar to cytochrome P450, family 2, subfamily J, polypeptide 2; microsomal monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIJ (arachidonic acid epoxygenase) polypeptide 2
AF21133 Rattus norvegicus CYP2J4
NP_075414 Rattus norvegicus AAH91149 cytochrome P450, family 2, subfamily J, polypeptide 4/Cytochrome P450, family 2, subfamily J, polypeptide 4
CAH138 Mus musculus BAC28391 BAC32356 AAH56832 BAE38325 cytochrome P450, family 2, subfamily J, polypeptide 6/unnamed protein product /unnamed protein product /Cyp2j6 protein /unnamed protein product
O54750 Mus musculus AAB67636 CP2J6_MOUSE Cytochrome P450 2J6 (CYPIIJ6) (Arachidonic acid epoxygenase)/cytochrome P450 monooxygenase
P_083255 Mus musculus AAK59868 cytochrome P450, family 2, subfamily j, polypeptide 9/cytochrome P450 CYP2J9
BAB31202 Mus musculus unnamed protein product
NP_786942 Rattus norvegicus P51590 AAB48545 AAH89766 cytochrome P450, family 2, subfamily j, polypeptide 9/CP2J3_RAT Cytochrome P450 2J3 (CYPIIJ3)/cytochrome P450 monooxygenase /Cytochrome P450, family 2, subfamily j, polypeptide 9
NP_034137 Mus musculus O54749 AAB87635 AAH21624 BAE28954 BAE25615 BAE38164 cytochrome P450, family 2, subfamily j, polypeptide 5/CP2J5_MOUSE Cytochrome P450 2J5 (CYPIIJ5) (Arachidonic acid epoxygenase) /cytochrome P450 monooxygenase /Cytochrome P450,
XP_233189 Rattus norvegicus PREDICTED: similar to cytochrome P450, family 2, subfamily J, polypeptide 4
XP_578474 Rattus norvegicus PREDICTED: similar to Cytochrome P450, family 2, subfamily j, polypeptide 11
XP_621630 Mus musculus XP_919565 PREDICTED: similar to cytochrome P450, family 2, subfamily j, polypeptide 11/PREDICTED: similar to cytochrome P450, family 2, subfamily j, polypeptide 11
CAH69016 Danio rerio novel protein similar to cytochrome P450, family 2, subfamily J
XP_702311 Danio rerio CAH69018 PREDICTED: hypothetical protein XP_697219/cytochrome P450, family 2, subfamily J, polypeptide 2, B
NP_956914 Danio rerio AAH56816 cytochrome P450, family 2, subfamily J, polypeptide 2, B/Cytochrome P450, family 2, subfamily J, polypeptide 2, B
CAH69017 Danio rerio novel protein similar to cytochrome P450, family 2, subfamily J
NP_958919 Danio rerio AAH49521 CAH69019 cytochrome P450, family 2, subfamily J, polypeptide 2, A/Cytochrome P450, family 2, subfamily J, polypeptide 2, A /cytochrome P450, family 2, subfamily J, polypeptide 2, A
CAI20788 Danio rerio CAI21324 novel protein similar to cytochrome P450, family 2, subfamily J/novel protein similar to cytochrome P450, family 2, subfamily J
AAH60328 Xenopus laevis MGC68450 protein
AAY51974 Cercopithecus aethiops cytochrome P450 2C83
Q53361 Homo sapiens AAV41877 CAH73444 CAH74068 CP2C1_HUMAN Cytochrome P450 2C19 (R)-limonene 6-monooxygenase) ((S)-limonene 6-monooxygenase) ((S)-limonene 7-monooxygenase) (CYPIIC19) (P450-11A) (Mephenytoin 4-hydroxylase) (CYPIIC17) (P450-254C)/cytoc
NP_000760 Homo sapiens AAB59426 cytochrome P450, family 2, subfamily C, polypeptide 19/cytochrome
AAH97938 Rattus norvegicus Cytochrome P450, family 2, subfamily c, polypeptide 7
P33267 Mus musculus AAH11089 AAH24742 CP2F2_MOUSE Cytochrome P450 2F2 (CYPIIF2) (Naphthalene dehydrogenase) (Naphthalene hydroxylase) (P450-NAH-2)/Cytochrome P450, family 2, subfamily f, polypeptide 2 /Cytochrome P450, family 2, subfamily f, polypepti
NP_062176 Rattus norvegicus O35293 AAB70259 AAH70939 cytochrome P450, family 2, subfamily f, polypeptide 2/CP2F2_RAT Cytochrome P450 2F2 (CYPIIF2) (Naphthalene dehydrogenase) (Naphthalene hydroxylase) (P450-NAH-2) /cytochrome P450F4 /Cytochrome P450
NP_955301 Canis familiaris PREDICTED: similar to cytochrome P450, family 2, subfamily F, polypeptide 1
XP_422751 Gallus gallus PREDICTED: similar to cytochrome P450, family 2, subfamily IIJ, polypeptide 2; microsomal monooxygenase; flavoprotein-linked monooxygenase
XP_422750 Gallus gallus PREDICTED: similar to Cytochrome P450 2J6 (CYPIIJ6) (Arachidonic acid epoxygenase)
AAS92624 Hypericum androsaemum cytochrome P450
Q03976 Helianthus tuberosus CAA71054 C76B1_HELTU Cytochrome P450 76B1 (7-ethoxycoumarin O-deethylase) (ECOD) (Phenylurea dealkylase)/7-ethoxycoumarin O-deethylase
CAA71178 Helianthus tuberosus 7-ethoxycoumarin O-deethylase
AT2G45550 = NP_182079 Q64635 AAC06156 CYP76C4; heme binding/iron ion binding /monooxygenase/oxygen binding /C76C4_ARATH Cytochrome P450 76C4/putative cytochrome P450
AT2G45570 = NP_182081 O64637 AAC06158 AAL32678 AAM17979 CYP76C2; heme binding/iron ion binding /monooxygenase/oxygen binding /C76C2_ARATH Cytochrome P450 76C2/putative cytochrome P450 /putative cytochrome P450 /putative cytochrome P450
Q42799 Glycine max BAA13076 C93A2_SOYBN Cytochrome P-450 (CYP93A2)
P47195 Berberis stolonifera AAC48967 C80A1_BERST Berbamunine synthase (Cytochrome P450 80) (CYPLXXX) ((S)-N-methylcoclaurine oxidase/cytochrome P-450 CYP80
AAU20707 Thalictrum flavum subsp. glaucum ((S)-N-methylcoclaurine 3'-hydroxylase
NP_919810 Oryza sativa (japonica cultivar-group) AAK63873 Oryza sativa AAP52097 Oryza sativa (japonica cultivar-group) putative cytochrome P450/Putative cytochrome P450 /Cytochrome P450
gi|AAB96647 Oryza sativa (japonica cultivar-group) Cytochrome P450
ABC59086 Medicago truncatula cytochrome P450 monooxygenase CYP98A
ABB83676 Coffea canephora putative p-coumaroyl 3'-hydroxylase CYP98A-C1
AAS57921 Camptotheca acuminata hydroxylase-like cytochrome P450 CASS
AAT28221 Ginkgo biloba putative ent-Kaurenoic acid hydroxylase-like cytochrome P450
AAO23063 Pisum sativum ent-kaurenoic acid oxidase
AAO23064 Pisum sativum ent-kaurenoic acid oxidase
AT2G32440 = NP_180803 Q9C5Y2 AAC69934 AAK11565 KAO2 (ENT-KAURENOIC ACID HYDROXYLASE 2); oxygen binding/KAO2_ARATH Ent-kaurenoic acid oxidase 2 (AtKAO2) (Cytochrome P450 88A4)/putative cytochrome P450 /ent-kaurenoic acid hydroxylase
AT1G05160 = NP_172008 O23051 AAB71462 AAK11564 CYP88A3 (ENT-KAURENOIC ACID HYDROXYLASE 1); oxygen binding/KAO1_ARATH Ent-kaurenoic acid oxidase 1 (AtKAO1) (Cytochrome P450 88A3) /Similar to Zea DWARF3 (gb|U32579).=ent-kaurenoic acid hydroxylase
AAG41777 Cucurbita maxima ent-kaurenoic acid oxidase
Q9AXH9 Hordeum vulgare AAK11616 Hordeum vulgare subsp. vulgare KAO1_HORVU Ent-kaurenoic acid oxidase 1 (gpr5) /ent-kaurenoic acid oxidase
XP_550479 Oryza sativa (japonica cultivar-group) BAD67695 BAD67898 putative cytochrome P450 DWARF3/putative cytochrome P450 DWARF3
AAL50620 Zea mays DWARF3
Q43246 Zea mays AAC49067 AAL50591 AAL50598 AAL50601 AAL50608 AAL50613 AAL50618 C88A1_MAIZE Cytochrome P450 88A1 (Dwarf3 protein)/DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3
AAL50594 Zea mays DWARF3
AAL50576 Zea mays DWARF3
AAL50575 Zea mays AAL50578 AAL50588 AAL50590 AAL50605 AAL50614 DWARF3/DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3
AAL50616 Zea mays DWARF3
AAL50612 Zea mays DWARF3
AAL50577 Zea mays DWARF3
AAL50602 Zea mays AAL50603 DWARF3/DWARF3
AAL50607 Zea mays DWARF3
AAL50599 Zea mays DWARF3
AAL50582 Zea mays AAL50600 AAL50609 AAL50617 DWARF3/DWARF3 /DWARF3 /DWARF3
AAL50573 Zea mays DWARF3
AAL50574 Zea mays AAL50580 AAL50584 AAL50586 AAL50592 AAL50595 AAL50597 DWARF3/DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3 /DWARF3
AAL50619 Zea mays DWARF3
AAL50606 Zea mays DWARF3
AAL50615 Zea mays DWARF3
AAL50581 Zea mays DWARF3
AAL50587 Zea mays AAL50589 DWARF3/DWARF3
AAL50585 Zea mays DWARF3
AAL50611 Zea mays DWARF3
Smo_AT5G05690_146_1
Smo_AT5G05690_96_1
AT5G45340 = NP_851136 NP_199347 BAB10255 AAL57698 AAM26703 BAD16630 CYP707A3; heme binding/iron ion binding /monooxygenase/oxygen binding /CYP707A3; heme binding /iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /AT5g45340/K9E15_12 /A
AT4G19230 = NP_567581 NP_974574 CAA16713 CAB78925 AAK93657 AAM14385 BAD16629 CYP707A1; heme binding/iron ion binding /monooxygenase/oxygen binding /CYP707A1; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /cytochrome P
ABA55732 Solanum tuberosum ABA 8-hydroxylase CYP707A1
ABB71585 Hordeum vulgare subsp. vulgare ABA 8'-hydroxylase 1
XP_467350 Oryza sativa (japonica cultivar-group) BAD07562 BAD08071 putative cytochrome P450/putative cytochrome P450 /putative cytochrome P450
AT2G29090 = NP_180473 AAC33235 CYP707A2; heme binding/iron ion binding /monooxygenase/oxygen binding /putative cytochrome P450
ABA55733 Solanum tuberosum ABA 8'-hydroxylase CYP707A2
AAZ23260 Nicotiana tabacum cytochrome P450 monooxygenase
ABB71586 Hordeum vulgare subsp. vulgare ABA 8'-hydroxylase 2
BAD38475 Oryza sativa (japonica cultivar-group) putative cytochrome P450
XP_482909 Oryza sativa (japonica cultivar-group) BAD09367 putative cytochrome P450/putative cytochrome P450
AT3G19270 = NP_566628 BAB02968 AAM61624 CYP707A4; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /cytochrome P450, putative
AT1G19630 = NP_173393 CYP722A1; heme binding/iron ion binding /monooxygenase/oxygen binding
Ppa_AT5G05690_21_1
Ppa_AT5G05690_1_2
Ppa_AT5G05690_43_1
XP_473551 Oryza sativa (japonica cultivar-group) Q7XU38 Oryza sativa CAD30852 Oryza sativa (japonica cultivar-group) CAD41584 OSJNBa0088I22.16/C87A3_ORYSA Cytochrome P450 87A3/putative cytochrome P450 /OSJNBa0088I22.16
BAD29475 Oryza sativa (japonica cultivar-group) BAD29524 putative cytochrome P450/putative cytochrome P450
AT1G12740 = NP_172734 AAF88087 AAR24666 BAD44087 CYP87A2; heme binding/iron ion binding /monooxygenase/oxygen binding /T12C24.27 /At1g12740 /hypothetical protein
XP_473555 Oryza sativa (japonica cultivar-group) CAE04091 OSJNBa0088I22.12/OSJNBa0088I22.12
XP_473554 Oryza sativa (japonica cultivar-group) CAD41581 CAC81901 Oryza sativa OSJNBa0088I22.13/OSJNBa0088I22.13 /cytochrome P450
AAV85744 Oryza sativa (japonica cultivar-group) ABA92826 cytochrome P450/hypothetical protein LOC_Os11g18570
AAL73972 Sorghum bicolor putative cytochrome P450-like protein
AT1G55940 = NP_175990 AAF79335 CYP708A1; heme binding/iron ion binding /monooxygenase/oxygen binding /F14J16.21
AT5G48000 = NP_851153 NP_199611 NP_001032030 NP_851152 BAB11064 AAM96995 AAN15443 CYP708A2; heme binding/iron ion binding /monooxygenase/oxygen binding /CYP708A2; heme binding /iron ion binding /monooxygenase/oxygen binding /CYP708A2; heme binding /
AT1G78490 = NP_177970 AAL38249 AAP31953 CYP708A3; heme binding/iron ion binding /monooxygenase/oxygen binding /similar to cytochrome P450 /At1g78490
AT3G04470 = NP_190083 heme binding/iron ion binding /monooxygenase/oxygen binding
AT1G65670 = NP_176744 AAB69918 AAF23843 CYP702A1; heme binding/iron ion binding /monooxygenase/oxygen binding /Similar to Arabidopsis cytochrome P450 CYP90 (gb|X87367). /F1E22.5
T4G15396 = NP_680696 CYP702A6; heme binding/iron ion binding /monooxygenase
AAL77686 Arabidopsis thaliana At4g15396
AT4G15393 = NP_680695 AAM97016 AAN15513 CYP702A5; heme binding/iron ion binding /monooxygenase /unknown protein /unknown protein
AT4G15300 = NP_193265 CAB10388 AAF78572 CYP702A2; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 like protein /cytochrome P450 like protein
BAB02231 Arabidopsis thaliana cytochrome P450-like protein
AT4G15310 = NP_193266 CYP702A3; heme binding/iron ion binding /monooxygenase
Q69F95 Phaseolus vulgaris AAR13307 C85A_PHAVU Cytochrome P450 85A (C6-oxidase)/cytochrome P450
ABB60086 Vitis vinifera brassinosteroid-6-oxidase
Q43147 Lycopersicon esculentum AAB17070 C85A1_LYCES Cytochrome P450 85A1 (C6-oxidase) (Dwarf protein)/cytochrome P450 homolog
Q0DLE0 Lycopersicon esculentum BAD89234 LYCES Cytochrome P450 85A3 (C6-oxidase)/cytochrome P450
AT3G30180 = NP_566852 Q940V4 BAB02270 AAK96559 AAL36078 AAM61160 BAC55065 BR6OX2/CYP85A2; monooxygenase/oxygen binding /C85A2_ARATH Cytochrome P450 85A2 (Brassinosteroid-6-oxidase 2) (BR6ox 2) (C6-oxidase 2)/cytochrome P450 /AT3g30180/T20F20_6 /AT3g
AT5G38970 = NP_851105 NP_974862 Q9FMA5 BAB08653 BAB60858 BR6OX (BRASSINOSTEROID-6-OXIDASE); oxygen binding/BR6OX (BRASSINOSTEROID-6-OXIDASE); oxygen binding /C85A1_ARATH Cytochrome P450 85A1 (Brassinosteroid-6-oxidase 1) (BR6ox 1) (C6-oxidase 1)/cyt
Q6C5Q1 Oryza sativa BAC45000 Oryza sativa (japonica cultivar-group) AAT81671 C85A1_ORYSA Cytochrome P450 85A1 (C6-oxidase) (OsDWARF) (Dwarf protein)/cytochrome P450 /cytochrome P450
AAX07431 Pinus taeda cytochrome P450 CYPA
AAX07432 Pinus taeda cytochrome P450 CYPB
AT1G73340 = NP_177477 AAG30983 heme binding/iron ion binding /monooxygenase/oxygen binding /steroid 22-alpha-hydroxylase, putative
AT5G05690 = NP_196188 NP_001031838 Q42569 CAA60793 CAA60794 BAB09663 AAK58777 AAK96630 AAL36072 AAM10042 AAM65068 CPD (CABBAGE 3); heme binding /iron ion binding /monooxygenase/oxygen binding /CPD (CABBAGE 3); heme binding /iron ion binding /monooxyg
CAD27417 Nicotiana tabacum cytochrome P450
BAE16977 Zinnia elegans steroid 23-alpha-hydroxylase
AAF89209 Vigna radiata cytochrome P450
BAD90973 Oryza sativa (japonica cultivar-group) ABA91412 cytochrome P450/cytochrome p450 90a1
BAD90974 Oryza sativa (japonica cultivar-group) ABA95785 cytochrome P450/cytochrome p450 90a1
BAE16979 Zinnia elegans steroid 22-alpha-hydroxylase
AT3G60960 = NP_190635 Q64989 AAC05993 CAB82435 AAL06567 AAL90927 DWF4 (DWARF 4)/CY90B1, /Steroid 22-alpha-hydroxylase) (Dwarf4) (Dwarf protein 4)/steroid 22-alpha-hydroxylase; DWF4; CYP90B1 /steroid 22-alpha-hydroxylase (DWF
NP_912511 Oryza sativa (japonica cultivar-group) AAN60994 BAD90972 Putative steroid 22-alpha-hydroxylase/Putative steroid 22-alpha-hydroxylase /cytochrome P450
Q6F4F5 Oryza sativa BAD27424 Oryza sativa (japonica cultivar-group) C724B_ORYSA Cytochrome P450 724B1 (OsDWARF11) (Dwarf protein 11)/P450
NP_913139 Oryza sativa (japonica cultivar-group) Q94IW5 Oryza sativa BAB56089 Oryza sativa (japonica cultivar-group) cytochrome P450-like protein/C90D2_ORYSA Cytochrome P450 90D2 (C6-oxidase)/putative cytochrome P450 90C1
AAT44310 Oryza sativa (japonica cultivar-group) putative cytochrome P450
AT3G13730 = NP_566462 BAB01922 BAB62109 AAO42111 AAO50626 CYP90D1; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450-like protein /CYP90D /putative cytochrome P450 /putative cytochrome P450
AT4G36380 = NP_568002 Q9M006 DB5429 CAB16850 BAA37167 CAB80304 R0T3 (ROTUNDIFOLIA 3); oxygen binding/steroid hydroxylase /C90C1_ARATH Cytochrome P450 90C1 (ROTUNDIFOLIA3) /DB5429 cytochrome P450 like protein /cytochrome P450 like protein /cytochrome
Smo_AT5G05690_76_1 Smo_AT5G05690_29_1
Smo_AT5G05690_138_1
Smo_AT5G05690_6_1
Ppa_AT5G05690_39_1
Ppa_AT5G05690_22_1
Smo_AT5G05690_77_1
Smo_AT5G05690_106_1
Smo_AT5G05690_50_1
Smo_AT5G05690_93_1
Smo_AT5G05690_99_1
Smo_AT5G05690_193_1
Smo_AT5G05690_113_2
AAX07436 Picea sitchensis cytochrome P450 CYPA1
AAX07437 Picea sitchensis cytochrome P450 CYPA2
Smo_AT5G05690_18_1
Smo_AT5G05690_1_1
AT5G36110 = NP_198460 BAA96885 CYP716A1; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450-like
ABC59076 Medicago truncatula cytochrome P450 monooxygenase CYP716A
ABC94483 Artemisia annua putative taxadiene 5-alpha-hydroxylase cytochrome P450
ABC94482 Artemisia annua putative taxane 13-alpha-hydroxylase cytochrome P450
BAC23044 Solanum tuberosum cytochrome P450
Q9W419 Taxus cuspidata AAL23619 AAX20147 Taxus x media T13H_TAXCU Taxane 13-alpha-hydroxylase (Cytochrome P450 725A2)/taxane 13-alpha-hydroxylase /taxane 13-alpha-hydroxylase
AAX59903 Taxus wallichiana var. chinensis 13-alpha-hydroxylase
Q9AXM6 Taxus cuspidata AAK00946 T10H_TAXCU Taxane 10-beta-hydroxylase (5-alpha-taxadien-10-beta-hydroxylase) (Cytochrome P450 725A1)/5-alpha-taxadienol-10-beta-hydroxylase
BAA59032 Taxus x media 5-alpha-taxadienol-10-beta-hydroxylase; Tm10bh
AAN52360 Taxus wallichiana var. chinensis AAS19442 5-alpha-taxadienol-10-beta-hydroxylase/5-alpha-taxadienol-10-beta-hydroxylase
AAW03151 Botrytis sp. BT2 AAX08091 taxane 10-beta-hydroxylase/P450 taxane 10-beta-hydroxylase
AAQ56240 Taxus cuspidata taxadiene 5-alpha hydroxylase
AAU89341 Taxus wallichiana var. chinensis taxadiene 5-alpha hydroxylase
AAQ75553 Taxus cuspidata taxoid 7-beta-hydroxylase
AAR21106 Taxus wallichiana var. chinensis hydroxylase
AAS89065 Taxus canadensis taxoid 2-alpha-hydroxylase
AAV54171 Taxus wallichiana var. chinensis taxoid 2-alpha-hydroxylase
AAO66199 Taxus cuspidata taxane 14b-hydroxylase
XP_478429 Oryza sativa (japonica cultivar-group) BAC19977 BAD30846 putative 5-alpha-taxadienol-10-beta-hydroxylase/putative 5-alpha-taxadienol-10-beta-hydroxylase /putative 5-alpha-taxadienol-10-beta-hydroxylase
NP_912303 Oryza sativa (japonica cultivar-group) BAC56029 putative taxane 10-beta-hydroxylase(5-alpha-taxadienol-10-beta-hydroxylase) /putative taxane 10-beta-hydroxylase(5-alpha-taxadienol-10-beta- hydroxylase)
XP_478430 Oryza sativa (japonica cultivar-group) BAC19078 BAD30847 putative 5-alpha-taxadienol-10-beta-hydroxylase/putative 5-alpha-taxadienol-10-beta-hydroxylase /putative 5-alpha-taxadienol-10-beta-hydroxylase
NP_912319 Oryza sativa (japonica cultivar-group) BAC19981 putative 5-alpha-taxadienol-10-beta-hydroxylase/putative 5-alpha-taxadienol-10-beta-hydroxylase
NP_912326 Oryza sativa (japonica cultivar-group) BAC19985 putative 5-alpha-taxadienol-10-beta-hydroxylase/putative 5-alpha-taxadienol-10-beta-hydroxylase
NP_912311 Oryza sativa (japonica cultivar-group) BAC56035 putative taxane 10-beta-hydroxylase(5-alpha-taxadienol-10-beta-hydroxylase)/putative taxane 10-beta-hydroxylase(5-alpha-taxadienol-10-beta- hydroxylase)
XP_478426 Oryza sativa (japonica cultivar-group) BAC83721 putative taxane 14b-hydroxylase/putative taxane 14b-hydroxylase
XP_478433 Oryza sativa (japonica cultivar-group) BAC79653 putative 5-alpha-taxadienol-10-beta-hydroxylase/putative 5-alpha-taxadienol-10-beta-hydroxylase
XP_450791 Oryza sativa (japonica cultivar-group) BAD28099 putative taxane 10-beta-hydroxylase (5-alpha-taxadienol-10-beta-hydroxylase) (Cytochrome P450 725A1)/putative taxane 10-beta-hydroxylase (5-alpha-taxadienol-10-beta-hydroxylase) (Cytochrome P4
XP_707238 Danio rerio PREDICTED: similar to Cytochrome P450, subfamily XXVIA, polypeptide 1 isoform 4
XP_683823 Danio rerio NP_571221 AAH55232 PREDICTED: similar to Cytochrome P450, subfamily XXVIA, polypeptide 1 isoform 1/cytochrome P450, subfamily XXVIA, polypeptide 1 /Cytochrome P450, subfamily XXVIA, polypeptide 1
NP_997239 Danio rerio AAC60045 CP26A_BRARE Cytochrome P450 26A1 (Retinoic acid-metabolizing cytochrome) (P450RAI) (Retinoic acid 4-hydroxylase)/all-trans-retinoic acid 4-hydroxylase
CAF92771 Tetraodon nigroviridis unnamed protein product
NP_001001129 Gallus gallus Q9PUB4 AAF09250 cytochrome P450, family 26, subfamily A, polypeptide 1/CP26A_CHICK Cytochrome P450 26A1 (Retinoic acid degrading enzyme CYP26)/retinoic acid degrading enzyme CYP26
NP_599092 Rattus norvegicus AAL32056 ABB42968 ABC48786 cytochrome P450, family 26, subfamily A, polypeptide 1/retinoic acid hydroxylase /retinoic acid hydroxylase
NP_031837 Mus musculus O55127 CAA73206 AAD17217 cytochrome P450, family 26, subfamily a, polypeptide 1/CP26A_MOUSE Cytochrome P450 26A1 (Retinoic acid-metabolizing cytochrome) (P450RAI) (Retinoic acid 4-hydroxylase)/P450RA protein /cytochrome P450 re
NP_849374 Canis familiaris PREDICTED: similar to cytochrome P450, family 26, subfamily A, polypeptide 1 isoform 1 isoform 2
NP_58484 Bos taurus PREDICTED: similar to Cytochrome P450 26A1 (Retinoic acid-metabolizing cytochrome) (P450RA