CYP735A1. (At5g38450): partial tree
File name: CYP735A1. pt1.svg
196 aa residues 124 OTU included.
Results of Partial tree including Ppa CYP735A1 19 1, Ppa CYP735A1 51 1, XP_470668 [Oryza sativa (japonica cultivar-group)], ABA91196 [Oryza sativa (japonica cultivar-group)] .
Assemble Job Id: 7KRKNU, SelectN Assemble Job Id: Bln2lL(140)
Tree job id: MEUxwH
BP values out of 100
Analyzed by ku-bo@nibb.ac.jp
Date: Thu Jan 18 14:50:32 JST 2007

AT5G38450 = NP_198661 BAB09357 CYP735A1; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450-like protein
AT1G67110 = NP_176882 AAD10659 AAS47628 AAT06445 CYP735A2; heme binding/iron ion binding /monooxygenase/oxygen binding /putative Cytochrome P450 protein /At1g67110 /At1g67110
XP_482511 *Oryza sativa* (japonica cultivar-group) BAC24945 putative cytochrome P450 monooxygenase/putative cytochrome P450 monooxygenase
BAD36323 *Oryza sativa* (japonica cultivar-group) BAD36321 putative cytochrome P450 monooxygenase CYP72A5/putative cytochrome P450 monooxygenase CYP72A5
XP_479552 *Oryza sativa* (japonica cultivar-group) BAC80012 putative cytochrome P450/putative cytochrome P450
AAW56875 *Oryza sativa* (japonica cultivar-group) AAY42600 AAY42601 putative cytochrome P450/EUI /EUI
AAK38086 *Lolium rigidum* putative cytochrome P450
AAK38085 *Lolium rigidum* putative cytochrome P450
ABA91196 *Oryza sativa* (japonica cultivar-group) cytochrome P-450, putative
ABA95660 *Oryza sativa* (japonica cultivar-group) cytochrome P450, putative
AT5G24900 = NP_197872 AAR92276 AAS99689 CYP714A2; heme binding/iron ion binding /monooxygenase/oxygen binding /At5g24900 /At5g24900
AT5G24910 = NP_568463 AAL24168 AAO11603 CYP714A1; heme binding/iron ion binding /monooxygenase/oxygen binding /AT5g24910/F6A4_120 /At5g24910/F6A4_120
XP_468473 *Oryza sativa* (japonica cultivar-group) BAD22930 BAD22862 putative cytochrome P450/putative cytochrome P450 /putative cytochrome P450
AT5G52400 = NP_200053 BAB10537 CYP715A1; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P-450-like protein
Smo_CYP735A1_51_1
ABC59079 *Medicago truncatula* cytochrome P450 monooxygenase CYP72E
ABC68404 *Glycine max* cytochrome P450 monooxygenase CYP72A1
ABC59088 *Medicago truncatula* cytochrome P450 monooxygenase CYP72A
ABC59099 *Medicago truncatula* cytochrome P450 monooxygenase CYP72F
ABC59077 *Medicago truncatula* cytochrome P450 monooxygenase CYP72D
ABC59075 *Medicago truncatula* cytochrome P450 monooxygenase CYP72C
ABC68405 *Glycine max* cytochrome P450 monooxygenase CYP72B
ABC59078 *Medicago truncatula* cytochrome P450 monooxygenase CYP72B
AT3G14630 = NP_188081 BAB02395 CYP72A9; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450-like protein
AT3G14680 = NP_188086 BAB02400 AAK32934 AAN46762 CYP72A14; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /AT3g14680/MIE1_18 /At3g14680/MIE1_18
AT3G14640 = NP_188082 BAB02396 CYP72A10; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450
AT3G14660 = NP_188084 BAB02398 AAL57694 AAO22574 CYP72A13; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /AT3g14660/MIE1_16 /putative cytochrome P450 protein
AT3G14650 = NP_188083 BAB02397 CYP72A11; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450
AT3G14690 = NP_188087 BAB02401 AAK92762 AAM20382 CYP72A15; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /putative cytochrome P450 protein /putative cytochrome P450 protein
AT3G14610 = NP_188079 BAB02393 AAL61910 AAO30051 CYP72A7; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /cytochrome P450 /cytochrome P450
AAA17746 *Catharanthus roseus* cytochrome P450
1909351A *Catharanthus roseus* Q05047 AAA33106 1909351A cytochrome P450/C72A1_CATRO Cytochrome P450 72A1 (CYPLXXII) (Secologanin synthase) (SLS) /cytochrome P-450 protein
AAA17732 *Catharanthus roseus* cytochrome P450
AT3G14620 = NP_188080 BAB02394 AAK97679 AAL38603 CYP72A8; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450 /AT3g14620/MIE1_12 /AT3g14620/MIE1_12
NP_917787 *Oryza sativa* (japonica cultivar-group) BAD61186 BAD61158 putative cytochrome P450/cytochrome P450-like /cytochrome P450-like
AAM77718 *Zea mays* cytochrome P450 monooxygenase CYP72A28
NP_917804 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
NP_917805 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
NP_917794 *Oryza sativa* (japonica cultivar-group) BAE46802 putative cytochrome P450/cytochrome P450 monooxygenase
BAB87118 *Oryza sativa* cytochrome P450
NP_917795 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
NP_917538 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
NP_917537 *Oryza sativa* (japonica cultivar-group) BAB89973 BAB91724 putative cytochrome P450/cytochrome P450 (CYP72C)-like /cytochrome P450 (CYP72C)-like
AAQ13548 *Triticum aestivum* cytochrome P450
AAQ13549 *Triticum aestivum* AAQ13550 cytochrome P450/cytochrome P450
AAQ13551 *Triticum aestivum* cytochrome P450
NP_917791 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
NP_917796 *Oryza sativa* (japonica cultivar-group) putative cytochrome P450
AAM77717 *Zea mays* cytochrome P450 monooxygenase CYP72A27
AAL60592 *Zea mays* cytochrome P450 monooxygenase CYP72A26
NP_917793 *Oryza sativa* (japonica cultivar-group) BAD61188 BAD61160 putative cytochrome P450/cytochrome P450-like /cytochrome P450-like
NP_916754 *Oryza sativa* (japonica cultivar-group) BAB21156 putative cytochrome P450/cytochrome P450-like
XP_475144 *Oryza sativa* (japonica cultivar-group) AAT58831 putative cytochrome P450/putative cytochrome P450
NP_917788 *Oryza sativa* (japonica cultivar-group) BAB19083 BAB19104 BAB85117 BAE46801 putative cytochrome P450/cytochrome P450-like /cytochrome P450-like /cytochrome P450 /cytochrome P450 monooxygenase
AAK38091 *Lolium rigidum* putative cytochrome P450
AAK38092 *Lolium rigidum* putative cytochrome P450
AAK38094 *Lolium rigidum* putative cytochrome P450
AAK38090 *Lolium rigidum* putative cytochrome P450
AAK38093 *Lolium rigidum* putative cytochrome P450
AAM77716 *Zea mays* cytochrome P450 monooxygenase CYP72A16
AAL66770 *Zea mays* cytochrome P450 monooxygenase CYP72A5
AAB05376 *Nicotiana plumbaginifolia* putative cytochrome P-450
BAB86912 *Solanum tuberosum* putative cytochrome P450
AAF64303 *Lycopersicon esculentum* putative cytochrome P450
XP_479336 *Oryza sativa* (japonica cultivar-group) BAC06993 BAD31455 putative cytochrome P450/putative cytochrome P450 /putative cytochrome P450
NP_909468 *Oryza sativa* (japonica cultivar-group) OSJNBb0008D07.14
BAD32835 *Oryza sativa* (japonica cultivar-group) putative cytochrome P-450 protein
XP_464554 *Oryza sativa* (japonica cultivar-group) BAD16010 BAD38430 putative cytochrome P450 monooxygenase/putative cytochrome P450 monooxygenase /putative cytochrome P450 monooxygenase
AT2G26710 = NP_180239 AAB95305 AAQ65187 BAD42995 BAS1 (PHYB ACTIVATION TAGGED SUPPRESSOR 1); oxygen binding/putative cytochrome P450 /At2g26710 /putative cytochrome P450
NP_908909 *Oryza sativa* (japonica cultivar-group) BAB93411 putative cytochrome P450/putative cytochrome P450
XP_470668 *Oryza sativa* (japonica cultivar-group) AAO62325 putative cytochrome P450, 5'-partial/putative cytochrome P450, 5'-partial
NP_909822 *Oryza sativa* (japonica cultivar-group) AAG46147 putative cytochrome P450-related protein/putative cytochrome P450-related protein
NP_918028 *Oryza sativa* (japonica cultivar-group) BAC10043 putative cytochrome P450/putative cytochrome P450
XP_477684 *Oryza sativa* (japonica cultivar-group) BAC10362 putative cytochrome P450/putative cytochrome P450
NP_918022 *Oryza sativa* (japonica cultivar-group) BAC07129 BAC10038 putative cytochrome P450/putative cytochrome P450 /putative cytochrome P450
NP_918020 *Oryza sativa* (japonica cultivar-group) BAC07127 BAC10036 putative cytochrome P450/putative cytochrome P450 /putative cytochrome P450
NP_918024 *Oryza sativa* (japonica cultivar-group) BAC10039 putative cytochrome P450/putative cytochrome P450
AAT68297 *Triticum aestivum* cytochrome P450 CYP709C1
AAR11387 *Triticum aestivum* cytochrome P450
AAK73105 *Zea mays* cytochrome P450
BAD35258 *Oryza sativa* (japonica cultivar-group) BAD35814 putative cytochrome P450/putative cytochrome P450
BAD35257 *Oryza sativa* (japonica cultivar-group) BAD35813 putative cytochrome P450/putative cytochrome P450
AT4G27710 = NP_194501 CAB38283 CAB81421 CYP709B3; heme binding/iron ion binding /monooxygenase/oxygen binding /cytochrome P450-like protein /cytochrome P450-like protein
AT2G46960 = NP_566092 NP_850465 AAK32916 AAM10287 AAC34227 CYP709B1; heme binding/iron ion binding /monooxygenase/oxygen binding /CYP709B1; heme binding /iron ion binding /monooxygenase/oxygen binding /At2g46960/F14M4.21 /At2g46960/F14M4.21 /putativ
AT2G46950 = NP_182218 AAC34228 AAS47631 AAT41791 CYP709B2; heme binding/iron ion binding /monooxygenase/oxygen binding /putative cytochrome P450 /At2g46950 /At2g46950
Smo_CYP735A1_40_1
Smo_CYP735A1_4_1
Smo_CYP735A1_36_1
Smo_CYP735A1_56_1
Smo_CYP735A1_32_1
Smo_CYP735A1_1_1
Smo_CYP735A1_10_1
Smo_CYP735A1_46_2
Smo_CYP735A1_38_1
Smo_CYP735A1_23_1
Smo_CYP735A1_40_2
Smo_CYP735A1_37_1
Ppa_CYP735A1_51_1
Ppa_CYP735A1_19_1
Ppa_CYP735A1_50_1
Ppa_CYP735A1_27_1
Ppa_CYP735A1_63_1
NP_532257 *Agrobacterium tumefaciens str. C58* NP_354568 AAK87353 AAL42573 cytochrome P450/hypothetical protein AGR_C_2890 /AGR_C_2890p /cytochrome P450
NP_241445 *Bacillus halodurans C-125* BAB04298 cytochrome P450 hydroxylase/cytochrome P450 hydroxylase
ZP_00110793 *Nostoc punctiforme PCC 73102* COG2124: Cytochrome P450
XP_321208 *Anopheles gambiae str. PEST* EAA01074 ENSANGP00000020095/ENSANGP00000020095
Q964T1 *Blattella germanica* AAK69411 CP4CU_BLAGE Cytochrome P450 4c21 (CYPIVC21)/cytochrome P450
BAA85387 *Xenopus laevis* cytochrome P450 XL-304
AAH84618 *Xenopus laevis* Unknown (protein for MGC:98318)
NP_001015810 *Xenopus tropicalis* AAH90091 MGC97602 protein/MGC97602 protein
BAD02914 *Xenopus laevis* Cytochrome P450
XP_541984 *Canis familiaris* PREDICTED: similar to cytochrome P450, family 2, subfamily E, polypeptide 2 homolog
NP_796281 *Mus musculus* BAC26210 BAC29745 cytochrome P450, family 2, subfamily E, polypeptide 2 homolog/unnamed protein product /unnamed protein product
CAF91666 *Tetraodon nigroviridis* unnamed protein product
AAA31430 *Oryctolagus cuniculus* cytochrome P450 3c protein
P11707 *Oryctolagus cuniculus* AAA31178 CP3A6_RABIT Cytochrome P450 3A6 (CYPIIIA6) (P450-3C)/cytochrome p-450
CAA55887 *Rattus norvegicus* unnamed protein product
O70537 *Mesocricetus auratus* BAA25811 CP3AV_MESAU Cytochrome P450 3A31 (CYPIIIA31) (P450 SH3A-1)/CYP3A31
AAI02567 *Bos taurus* Unknown (protein for MGC:127840)
Q29496 *Ovis aries* AAB02657 CP3AO_SHEEP Cytochrome P450 3A24 (CYPIIIA24)/cytochrome P450 CYP3A24
BAD06180 *Sus scrofa domestica* cytochrome P450
AAL13316 *Sus scrofa* cytochrome P450 3A
NP_999588 *Sus scrofa* P79401 CAB07513 cytochrome P450 3A29/CP3AT_PIG Cytochrome P450 3A29 (CYPIIIA29)/cytochrome P450
NP_999587 *Sus scrofa* AAD04628 cytochrome P450 3A39/cytochrome P450

0.100