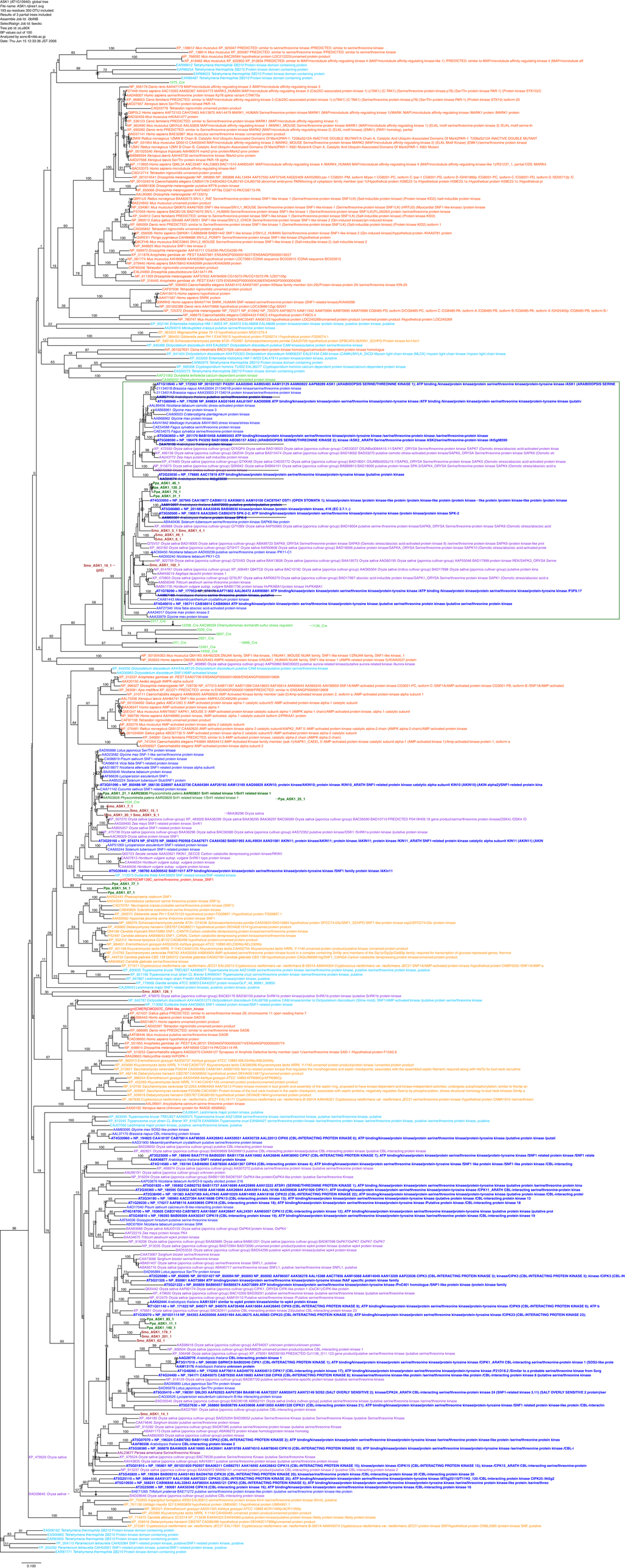
ASK1 (AT1G10940): global tree
File name: ASK1 eqtree1.svg
193 aa residues 350 OTU included.
Input file: ASK1 eqtree1.mafft
Assemble Job Id: 0bIlNB
Selectalign Job Id: 9ewcfc
Tree job id: oLo9iX
BP values out of 100
Analyzed by aono@nibb.ac.jp
Date: Thu Jun 15 12:33:36 JST 2006


XP_138612 Mus musculus XP_900047 PREDICTED: similar to serine/threonine kinase /PREDICTED: similar to serine/threonine kinase
XP_138614 Mus musculus XP_900097 PREDICTED: similar to serine/threonine kinase /PREDICTED: similar to serine/threonine kinase
XP_765092 Mus musculus BAC26564 hypothetical protein LOC112225/unnamed protein product
XP_619462 Mus musculus XP_622850 XP_912834 PREDICTED: similar to MAP/microtubule affinity-regulating kinase 4 (MAP/microtubule affinity-regulating kinase-like 1) /PREDICTED: similar to MAP/microtubule affinity-regulating kinase 4 (MAP/microtubule aff
EAR89912 Tetrahymena thermophila SB210 Protein kinase domain containing protein
EAR80254 Tetrahymena thermophila SB210 Protein kinase domain containing protein
CAR88023 Tetrahymena thermophila SB210 Protein kinase domain containing protein
EAR86487 Tetrahymena thermophila SB210 Protein kinase domain containing protein
1075_Ce
XP_956179 Danio rerio AAH47179 MAP/microtubule affinity-regulating kinase 3 MAP/microtubule affinity-regulating kinase 3
XP27448 Homo sapiens AAD15093 AAX28287 AAH24773 MARK3_HUMAN MAP/microtubule affinity-regulating kinase 3 (Cdc25C-associated protein kinase 1) (CTAK1) (C-TAK1) (Serine/threonine protein kinase p78) (SerThr protein kinase PAR-1) (Protein kinase STK10)/C
AAD46007 Homo sapiens serine/threonine protein kinase Kp78 splice variant CTAK75a
XP_868653 Canis familiaris PREDICTED: similar to MAP/microtubule affinity-regulating kinase 3 (Cdc25C-associated protein kinase 1) (cTAK1) (C-TAK1) (Serine/threonine protein kinase p78) (SerThr protein kinase PAR-1) (Protein kinase STK10) isoform 20
XM27567 Xenopus laevis SerThr protein kinase PAR-1A
AAD30778 Tetraodon nigroviridis unnamed protein product
QIFOL2 Homo sapiens AAF72103 CAH72463 AA13870 AAI14479 MARK1_HUMAN Serine/threonine-protein kinase MARK1 (MAP/microtubule affinity-regulating kinase 1)/MARK /MAP/microtubule affinity-regulating kinase /MARK1 protein /MARK1 protein
AAD32459 Mus musculus mKIAA1477 protein
XP_536123 Canis familiaris PREDICTED: similar to Serine/threonine-protein kinase MARK1 (MAP/microtubule affinity-regulating kinase 1)
XP_06490 Mus musculus QIFVL6 AAL50826 MAP/microtubule affinity-regulating kinase 1 /MARK1_MOUSE Serine/threonine-protein kinase MARK1 (MAP/microtubule affinity-regulating kinase 1) (ELKL motif serine/threonine-protein kinase 3) /ELKL motif serine-th
XP_690390 Danio rerio PREDICTED: similar to Serine/threonine-protein kinase MARK2 (MAP/microtubule affinity-regulating kinase 2) (ELKL motif kinase) (EMK1) (PAR1 homolog), partial
XP_417141 Homo sapiens BAE35987 Homo sapiens unnamed protein product
DNW Rattus norvegicus 1ZMW B Chain B, Catalytic And Ubiquitin-Associated Domains Of Mark2/Par1-1; T208e/S212A INACTIVE DOUBLE MUTANT/A Chain A, Catalytic And Ubiquitin-Associated Domains Of Mark2/Par1-1; T208e/S212A INACTIVE DOUBLE MUTANT
XP_001954 Mus musculus Q05512 CAA50040 MARK2_MOUSE MAP/microtubule affinity-regulating kinase 2 (MARK2_MOUSE) (Par1 protein homolog) (Par1b) (EC 2.7.11.1) (ELKL Motif Kinase) (EMK1) serine/threonine protein kinase
DNV Rattus norvegicus 1ZMV B Chain B, Catalytic And Ubiquitin-Associated Domains Of Mark2/Par1-1; K82I Mutant/A Chain A, Catalytic And Ubiquitin-Associated Domains Of Mark2/Par1-1; K82I Mutant
XP_001025540 Xenopus tropicalis AAH65074 mark2-prov protein/Mark2-prov protein
BAD86594 Xenopus laevis AAH49730 serine/threonine kinase Mark2-prov protein
XM27568 Xenopus laevis SerThr protein kinase PAR-1B
XP_113605 Homo sapiens Q96L34 AAC33487 AAL23663 BAC11510 AAM55491 MAP/microtubule affinity-regulating kinase 4 /MARK4_HUMAN MAP/microtubule affinity-regulating kinase 4 (MAP/microtubule affinity-regulating kinase-like1)/FLJ31237_1, partial CDS /MARK4
CAC33375 Homo sapiens microtubule affinity-regulating kinase like1
CAG11214 Tetraodon nigroviridis unnamed protein product
XP_001081644 Drosophila melanogaster NP_995898 NP_995898 AAL14494 AAF57550 AAF57548 AAQ20409 AAX52693 par-1 CG8201-PK, isoform M par-1 CG8201-PC, isoform C (par-1 CG8201-PD, isoform D (GH01890p /CG8201-PC, isoform C /CG8201-PD, isoform D /SD05712p /C
XP_001024016 Caenorhabditis elegans CAB54179 CAB54263 CAJ85745 CAJ85756 abnormal embryonic PARfibroting of cytoplasm family member (par-1)/Hypothetical protein H39E23.1a /Hypothetical protein H39E23.1a /Hypothetical protein H39E23.1c /Hypothetical pr
AAB81626 Drosophila melanogaster partial KP78 protein kinase
XP_006095 Drosophila melanogaster AAF54627 KP78a CG6715-PA/CG6715-PA
AAL00660 Drosophila melanogaster AT13327p
XP_001105 Rattus norvegicus BAA06273 SNI1L1_RAT Serine/threonine-protein kinase SNF1-like kinase 1 (Serine/threonine-protein kinase SNF1LK) (Salt-inducible protein kinase) (Protein kinase KIDZ) /salt-inducible protein kinase
XP_042842 Mus musculus unnamed protein product
XP_034961 Mus musculus Q60670 AAA67926 SNF1-like kinase/SNI1L1_MOUSE Serine/threonine-protein kinase SNF1-like kinase 1 (Serine/threonine-protein kinase SNF1LK) (HRT-20) (Myocardial SNF1-like kinase) /protein kinase
XP_57059 Homo sapiens BAC85126 CAB42070 SNI1_HUMAN Serine/threonine-protein kinase SNF1-like kinase 1 (Serine/threonine-protein kinase SNF1LK)/FLJ00263 protein /serine/threonine protein kinase
XP_544912 Canis familiaris PREDICTED: similar to Serine/threonine-protein kinase SNF1-like kinase 1 (Serine/threonine-protein kinase SNF1LK) (Salt-inducible protein kinase) (Protein kinase KIDZ)
XP_590106 Gallus gallus Q9WA85 AAF26351 SNF1-like kinase/SNI1L2_CHICK Serine/threonine-protein kinase SNF1-like kinase 2 (Qin-induced kinase)/qin-induced kinase
XP_685009 Danio rerio PREDICTED: similar to Serine/threonine-protein kinase SNF1-like kinase 1 (Serine/threonine-protein kinase SNF1LK) (Salt-inducible protein kinase) (Protein kinase KIDZ) isoform 1
AAD05842 Tetraodon nigroviridis unnamed protein product
XP_056006 Homo sapiens Q9H0K1 CAB66699 BAB91442 SNF1-like kinase 2/SNI1L2_HUMAN Serine/threonine-protein kinase SNF1-like kinase 2 (Qin-induced kinase)/hypothetical protein /KIAA0781 protein
XCGRE51 Pongo pygmaeus CAH99595 SNI1L2_PONPY Serine/threonine-protein kinase QIK kinase /3-hypothetical protein
XBCF66 Mus musculus BAC03845 SNI1L2_MOUSE Serine/threonine-protein kinase SNF1-like kinase 2 (Salt-inducible kinase 2) /salt inducible kinase 2
XP_848925 Mus musculus SNF1-like kinase 2
XP_569973 Drosophila melanogaster AAF45711 CG4290-PA/CG4290-PA
XP_311678 Anopheles gambiae str. PEST EAA07861 ENSANGP00000018227/ENSANGP00000018227
XP_081774 Mus musculus AAH06688 AAH63268 hypothetical protein LOC10661/CDNA sequence BC033915 /CDNA sequence BC033915
XP_073440 Homo sapiens BAA59843 KIAA0999 protein/KIAA0999 protein
CAF95556 Tetraodon nigroviridis unnamed protein product
XP_462493 Drosophila pseudoobscura GA13417-PA
XP_611359 Drosophila melanogaster AAF57652 AAY84909 CG15072-PA/CG15072-PA, LD07105p
XP_316445 Anopheles gambiae str. PEST EAA11379 ENSANGP00000004008/ENSANGP00000004008
XP_508493 Caenorhabditis elegans AAA81410 AAK97497 protein KINase family member (kin-29)/Protein kinase protein 29 /serine/threonine kinase KIN-29
CAF07508 Tetraodon nigroviridis unnamed protein product
CAH11815 Homo sapiens SNRK protein
SNRK2 Homo sapiens BAA07744 SNRK_HUMAN SNF-related serine/threonine-protein kinase (SNF1-related kinase)/KIAA0296
XP_001002399 Danio rerio AAH73868 hypothetical protein LOC406612/zgc:73168
XP_725372 Drosophila melanogaster NP_725371 NP_610942 NP_725370 AAF58274 AAM11342 AAM70994 AAM70995 CG8485-PD, isoform D/CG8485-PC, isoform C /CG8485-PA, isoform A /CG8485-PB, isoform B /CG8485-PN, isoform A /GH20405p /CG8485-PB, isoform B
XP_499673 Caenorhabditis elegans CAB04243 AAK73423 AAK73424 protein F49E10.1
XP_786747 Mus musculus BAC33424 BAC35497 AAK06123 hypothetical protein LOC245269/unnamed protein product /hypothetical protein LOC245269
XP_552158 Entamoeba histolytica HM-1:IMSS XP_654072 EAL46806 EAL46686 protein kinase/protein kinase /protein kinase, putative /protein kinase, putative
AAZ59810 Moneuplotes crassus putative serine/threonine protein kinase
XP_363353 Magnaporthe grisea 70-15 hypothetical protein MGG12790
XP_389452 Gibberella zeae PH-1 EAA70915 hypothetical protein FG09274.1 hypothetical protein FG09274.1
XP_596106 Schizosaccharomyces pombe 972h- P32087 Schizosaccharomyces pombe CAA20726 hypothetical protein SPBC4F6.05/KIN1_SCHPO Protein kinase kin1/kin1
XP_604867 Dictyostelium discoideum AX4 EAL66077 Dictyostelium discoideum putative CAM kinase/putative protein kinase /putative protein kinase
NP_001027631 Oryza sativa(rabidopsis) AAL91153 AAD51968 cDNA, putative
XP_641624 Dictyostelium discoideum AX4 P53303 Dictyostelium discoideum AAB06397 EAL67424 CAM kinase (CAMK)/MYLK_DICDI Myosin light chain kinase (MLCK) /myosin light chain kinase /myosin light chain kinase
XP_653200 Entamoeba histolytica HM-1:IMSS EAL47814 protein kinase/protein kinase, putative
CAR88879 Tetrahymena thermophila SB210 Protein kinase domain containing protein
XP_666308 Cryptosporidium hominis TU502 EAL36077 Cryptosporidium hominis calcium-dependent protein kinase/calcium-dependent protein kinase
CAR02270 Tetrahymena thermophila SB210 Protein kinase domain containing protein
AAP21062 Dunaliella tertiolecta calcium-dependent protein kinase
AAX69402 Chlamydomonas eugametos calcium-stimulated protein kinase
ATT1G10940 = NP_172563 NP_001031021 P43291 AAA02840 AAB65483 AAM13129 AAB80822 AAF66289 ASK1 (ARABIDOPSIS SERINE/THREONINE KINASE 1); ATP binding /kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /ASK1 (ARABIDOPSIS SERINE
AT1G34010 Arabidopsis thaliana putative serine/threonine protein kinase
AT1G60940 = NP_176290 NP_849834 AAG51549 AAL61947 AAO00996 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /ATP binding /kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putativ
AB286456 Nicotiana tabacum osmotic stress-activated protein kinase
AAB68961 Oryza sativa japonica cultivar-group 3
CAA09500 Catenostylis plantaginum protein kinase
AAK68962 Glycine max protein kinase
AAV41642 Medicago truncatula AAV41643 stress kinase/stress kinase
CAE54588 Fagus sylvatica serin/threonine protein kinase
CAE54075 Fagus sylvatica serin/threonine protein kinase
ATGGE36650 = NP_201170 BAB10458 AAM65503 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /serine/threonine-protein kinase
ATGGE6980 = NP_186476 P43292 BAB10008 ABD60137 ASK2 (ARABIDOPSIS SERINE/THREONINE KINASE 2); kinase /ASK2, ARATH Serine/threonine-protein kinase ASK2/serine/threonine-protein kinase /AtSg08090
CAA70100 Arabidopsis thaliana protein kinase
XP_472560 Oryza sativa (japonica cultivar-group) Q7XQH4 Oryza sativa BAB18003 Oryza sativa (japonica cultivar-group) CAE03037 OSJNBa0084K10.11 /SAPK7_ORYSA Serine/threonine-protein kinase SAPK7 (Osmotic stress/abscisic acid-activated protein kinas
XP_466158 Oryza sativa (japonica cultivar-group) Q6Z944 Oryza sativa BAD15474 Oryza sativa (japonica cultivar-group) BAD18002 BAD33270 putative osmotic stress-activated protein kinase/SAPK6_ORYSA Serine/threonine-protein kinase SAPK6 (Osmotic str
XP_474469 Oryza sativa (japonica cultivar-group) Q7XKA8 Oryza sativa CAE05772 Oryza sativa (japonica cultivar-group) BAD18001 OSJNBa0020J19.1/SAPK3_ORYSA Serine/threonine-protein kinase SAPK3 (Osmotic stress/abscisic acid-activated protein kinase
XP_315675 Oryza sativa (japonica cultivar-group) Q0WM42 Oryza sativa BAB84210 Oryza sativa (japonica cultivar-group) BAB88613 BAD18000 putative protein kinase/SPK-3/SAPK4_ORYSA Serine/threonine-protein kinase SAPK4 (Osmotic stress/abscisic acid-a
Oryza sativa (japonica cultivar-group) BAD18004 putative serine-threonine protein kinase/SAPK9_ORYSA Serine/threonine-protein kinase SAPK9 (Osmotic stress/abscisic acid
ATZC23030 = NP_179885 AAC17819 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative protein kinase
AAO64074 Arabidopsis thaliana AtSg03030
Sma_ASK1_46_1
Sma_ASK1_120_2
Sma_ASK1_70_1
Sma_ASK1_31_1
ATAZC23050 = NP_567945 CAA19877 CAB80112 AAK96815 AAM10100 CAC87047 OST1 (OPEN STOMATA 1); kinase/protein kinase /protein kinase-like protein /protein kinase-like protein /protein kinase-like protein /protein kinase - like protein /protein kinase/protein kinase /protein kinase
AAM19009 Arabidopsis thaliana AAN70999 putative protein/protein
ATLG06860 = NP_201489 AAA32846 BAB36030 kinase/protein kinase /protein kinase, 41K (EC 2.7.1.-)
ATGG30500 = NP_190019 AAA32845 CAB62479 SPK-2; ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /protein kinase/protein kinase SPK-2
AAM65991 Arabidopsis thaliana protein kinase SPK-2
ABA40436 Solanum tuberosum serine/threonine protein kinase SAPK9-like protein
XP_469886 Oryza sativa (japonica cultivar-group) Q7YI89 Oryza sativa AAF05969 Oryza sativa (japonica cultivar-group) BAD18004 putative serine-threonine protein kinase/SAPK9_ORYSA Serine/threonine-protein kinase SAPK9 (Osmotic stress/abscisic acid
Sma_ASK1_5_1 Smo_ASK1_4_1
Smo_ASK1_48_1
Smo_ASK1_6_1
QTSV57 Oryza sativa BAD18005 Oryza sativa (japonica cultivar-group) ABA99733 SAPK9_ORYSA Serine/threonine-protein kinase SAPK9 (Osmotic stress/abscisic acid-activated protein kinase 9) /serine/threonine protein kinase SAPK9 /protein kinase-like prot
XP_463160 Oryza sativa (japonica cultivar-group) Q75H77 Oryza sativa AAR06606 Oryza sativa (japonica cultivar-group) BAD18006 putative protein kinase/SAPK4_ORYSA Serine/threonine-protein kinase SAPK10 (Osmotic stress/abscisic acid-activated prote
AC256402 Nicotiana tabacum AB00239 putative serine/threonine protein kinase /PK11-C1
AAD00240 Nicotiana tabacum PK11-C5
XP_502739 Oryza sativa (japonica cultivar-group) Q75VE3 Oryza sativa BAA13608 Oryza sativa (japonica cultivar-group) BAA19573 Oryza sativa AAG60195 Oryza sativa (japonica cultivar-group) AAP55046 BAD17999 protein kinase REK/SAPK3_ORYSA Serine
Smo_ASK1_102_1
XP_914767 Oryza sativa (japonica cultivar-group) XP_506481 Q8H7C6 Oryza sativa BAC10192 Oryza sativa (japonica cultivar-group) AAO65504 Oryza sativa (indica cultivar-group) BAD17998 Oryza sativa (japonica cultivar-group) putative protein kina
AAW46219 Aegilops tauschii protein kinase 1
XP_470803 Oryza sativa (japonica cultivar-group) Q75LR7 Oryza sativa AAR06370 Oryza sativa (japonica cultivar-group) BAD17997 abscisic acid-inducible protein kinase/SAPK1_ORYSA Serine/threonine-protein kinase SAPK1 (Osmotic stress/abscisic acid-a
AAB68348 Triticum aestivum serine-threonine protein kinase
AB681735 Hordeum vulgare subsp. vulgare BAB61738 protein kinase /HvPKABA1protein kinase HvPKABA1
ATTG17890 = NP_177953 NP_974179 AAL77802 AAL66472 AAW80081 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /ATP binding /kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /P3F9.17
AAB67188 Arabidopsis thaliana putative protein kinase, putative
AAB67187 Arabidopsis thaliana putative protein kinase, putative
AT4G40010 = NP_195711 CAB39814 CAB80664 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative serine/threonine protein kinase /putative serine/threonine protein kinase /putative
AAX46117 Glycine max protein kinase 2
AAA33979 Glycine max protein kinase
CAB71_Ce
12298_Cre AAC88509 Chlamydomonas reinhardtii sulfur stress regulator
3338_Cre
3897_Cre
3521_Cre
241_Cre
3896_Cre
12461_Cre
11502_Cre
NP_001004363 Mus musculus Q64183 AAH63238 ZNUAK family, SNF1-like kinase, 1/NUAK1_MOUSE NUAK family, SNF1-like kinase 1/ZNUAK family, SNF1-like kinase, 1
NP_055655 Homo sapiens O60285 BAA25453 AMPK-related protein kinase 5/NUAK1_HUMAN NUAK family, SNF1-like kinase 1 (AMPK-related protein kinase 5)/KIAA0537 protein
XP_468880 Oryza sativa (japonica cultivar-group) Q6H5Z0 Oryza sativa (japonica cultivar-group) AAP52969 BAD20023 putative aurora-related kinase/aurora-related kinase /Aurora kinase
XP_642050 Dictyostelium discoideum AX4 EAL66125 Dictyostelium discoideum putative CAM kinase/putative protein kinase/putative serine/threonine kinase
AAD33060 Dictyostelium discoideum SNF1/AMP-activated kinase
XP_312237 Anopheles gambiae str. PEST EAA07706 ENSANGP00000010808/ENSANGP00000010808
AAQ81150 Aedes aegypti AAP-activated kinase
XP_996387 Drosophila melanogaster NP_726730 NP_477313 AAB71397 AAB71398 CAA19653 AAF45614 AAN09043 AAS65245 AAV36959 SNF1/AAMP-activated protein kinase CG3051-PC, isoform C /SNF1A/AMP-activated protein kinase CG3051-PB, isoform B /SNF1A/AMP-activated
XP_393981 Apis mellifera XP_623311 PREDICTED: similar to ENSANGP00000023808/PREDICTED: similar to ENSANGP00000023808
XP_510711 Caenorhabditis elegans AAM69095 AAR06928 AMP-Activated Kinase family member (aak-2)/Amp-activated kinase protein 2, isoform a /AMP-activated protein kinase alpha subunit 1
AAL73336 Xenopus laevis AAH64741 SNF1-like kinase/AMPK/LOC108290 protein
XP_001056950 Gallus gallus ABC41283 5-AMP-activated protein kinase alpha-1 catalytic subunit/5'-AMP-activated protein kinase alpha-1 catalytic subunit
AAC55437 Homo sapiens AMP-activated protein kinase alpha-1
CAG47 Mus musculus AAW07667 AAPK1_MOUSE 5'-AMP-activated protein kinase catalytic subunit alpha-1 (AMPK alpha-1 chain)/AMP-activated protein kinase, alpha 1 catalytic subunit
XP_996780 Homo sapiens AAH40860 protein kinase, AMP-activated, alpha 1 catalytic subunit isoform 2/PRKAA1 protein
XP_697048 Tetraodon nigroviridis unnamed protein product
XP_835379 Mus musculus AMP-activated protein kinase alpha 2 catalytic subunit
XP_576481 Rattus norvegicus Q00137 CAA80400 AMP-activated protein kinase alpha 2 catalytic subunit/AAPK2_RAT 5'-AMP-activated protein kinase catalytic alpha-2 chain (AMPK alpha-2 chain)/AMP-activated protein kinase
XP_001049694 Gallus gallus ABC67730 5'-AMP-activated protein kinase alpha-2 catalytic subunit/5'-AMP-activated protein kinase alpha-2 catalytic subunit
XP_546691 Canis familiaris PREDICTED: similar to 5-AMP-activated protein kinase, catalytic alpha 2 chain (AMPK alpha-2 chain)
XP_741254 Caenorhabditis elegans P45894 AB454413 AMP-Activated Kinase family member (aak-1)/AAPK1_CAEEL 5'-AMP-activated protein kinase catalytic subunit alpha-1 (AMP-activated kinase 1)/Amp-activated kinase protein 1, isoform a
AAR66027 Caenorhabditis elegans AMP-activated protein kinase alpha subunit 2
AD95988 Lotus japonicus SerThr protein kinase
AAD25582 Glycine max SNF1-like serine/threonine protein kinase
CAI36619 Pisum sativum SNF1-related protein kinase
CAI36618 Vicia faba SNF1-related protein kinase
AAS18877 Nicotiana attenuata SNF1-related protein kinase alpha subunit
BAA05649 Nicotiana tabacum protein kinase
AF66639 Lycopersicon esculentum SNF1
AAB52224 Solanum tuberosum StubSNF1 protein
ATSQ01090 = NP_850488 NP_566130 Q38997 AAA32736 CAA64304 AAF26165 AAM13169 AAQ56829 AKIN10; protein kinase /AKIN10; protein kinase /AKIN10, ARATH SNF1-related protein kinase catalytic alpha subunit KIN10 (AKIN10) (AKIN alpha2)/SNF1-related protein kina
CAA71142 Cucumis sativus SNF1-related protein kinase
Sma_ASK1_21_1 AAR03830 Physcomitrella patens AAR03831 Snf1 related kinase 1/Snf1 related kinase 1
AAR03828 Physcomitrella patens AAR03829 Snf1 related kinase 1/Snf1 related kinase 1
Sma_ASK1_25_1
Smo_ASK1_34_1
Smo_ASK1_7_1
Smo_ASK1_15_1
Sma_ASK1_20_1 Smo_ASK1_9_1
XP_507272 Oryza sativa (japonica cultivar-group) XP_483026 BAA36299 Oryza sativa BAA36295 BAA36297 BAC56689 Oryza sativa (japonica cultivar-group) BAC56690 BAD10710 PREDICTED P0419H09.18 gene product/serine/threonine protein kinase/OSK4 /OSK4 /O
AAS59400 Zea mays SnrK1-related protein kinase, SnrK1
AAB05457 Oryza sativa SNF1-related protein kinase
XP_475739 Oryza sativa (japonica cultivar-group) BAA36298 Oryza sativa BAC55698 Oryza sativa (japonica cultivar-group) AAS72352 putative protein kinase/OSK1 /SnRK1a protein kinase /putative protein kinase
XAC99329 Oryza sativa protein kinase SnK1
ATSQ9100 = NP_974374 NP_974375 NP_566843 P92958 CAA67671 CAA64382 BAB01993 AAL49934 AAN10801 AKIN11; protein kinase /AKIN11; protein kinase /AKIN11, ARATH SNF1-related protein kinase catalytic alpha subunit KIN11 (AKIN11) (AKIN
AAP51269 Lycopersicon esculentum SnF1-related protein kinase
CAA64244 Solanum tuberosum SNF1-related protein kinase
CAA72723 Secale cereale AAA39921 RKIN1 ; SECCE Carbon catabolite derepressing protein kinase/RKIN1
AAA07813 Hordeum vulgare subsp. vulgare SnRK1-type protein kinase
CAA46554 Hordeum vulgare subsp. vulgare protein kinase
CAA46556 Hordeum vulgare subsp. vulgare protein kinase
ATSQ39440 = NP_198760 AAD50542 BAB11017 ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /SNF1 family protein kinase /AKin11
XP_113571 Guillardia theta AAX28003 SNF-related kinase/SNF related
gnl|CMERCMT139C_serine/threonine_protein_kinase_SNF1
Pya_ASK1_77_1
Pya_ASK1_54_1
Pya_ASK1_87_1
AAR02440 Phaeophyceae nodorum SNF1
AAD43341 Cochlodinius sabdanum serine threonine protein kinase SNF1p
CAD70761 Neurospora crassa probable serine/threonine protein kinase (SNF1)
ABA5026 Sclerotinia sclerotiorum serine threonine protein kinase
XP_390073 Gibberella zeae PH-1 EAA70123 hypothetical protein FG08897.1/hypothetical protein FG08897.1
UA05950 Hypocrea jecorina serine threonine protein kinase SNF1
XP_588376 Schizosaccharomyces pombe 972h- O74536 Schizosaccharomyces pombe CAA20833 BAD10884 hypothetical protein SPCC7.03c/SNF1_SCHPO SNF1-like protein kinase ssp2/SPCC74.03c /protein kinase
XP_459002 Debaryomyces hansenii CBS767 CAG82811 hypothetical protein DEHA0E15741g/unnamed protein product
XP_004166 Candida tropicalis BAA75889 SNF1_CANTR Carbon catabolite derepressing protein kinase/serine/threonine protein kinase
XP_42497 Candida albicans AB464543 SNF1_CANAL Carbon catabolite derepressing protein kinase/serine/threonine protein kinase
XP_502512 Yarrowia lipolytica CLIB122 CAG84088 hypothetical protein/unnamed protein product
XP_964631 Eremothecium gossypii AAS52455 Ashbya gossypii ATCC 10895 AEL23000 AEL23000
XP_451166 Kluyveromyces lactis NRRL Y-1140 CAA61235 Kluyveromyces lactis CAH02754 Kluyveromyces lactis NRRL Y-1140 unnamed protein product/putative kinase /unnamed protein product
XP_001765 Saccharomyces cerevisiae S288C P38218 AAB64884 AAB64884 AAT92058 AAB64884 ATP-dependent serine/threonine protein kinase found in a complex containing Snf4p and members of the Sip1p/Sip2p/Gal83p family; required for transcription of glucose-repressed genes, thermot
XP_447033 Candida glabrata CBS 138 Q00372 Candida glabrata CAG62709 Candida glabrata CBS 138 hypothetical protein CAGL0M08910g/SNF1_CANGA Carbon catabolite derepressing protein kinase/unnamed protein product
AB454842 Candida glabrata serine/threonine kinase
XP_575611 Cryptococcus neoformans var. neoformans JEC21 EAL20213 Cryptococcus neoformans var. neoformans B-3501A AAW44304 Cryptococcus neoformans var. neoformans JEC21 SNF1/AMP-activated protein kinase /hypothetical protein CNBF0250 /SNF1A/AMP-a
XP_830005 Trypanosoma brucei TREU927 AAX80077 Trypanosoma brucei AAZ10489 serine/threonine protein kinase /serine/threonine protein kinase, putative /serine/threonine protein kinase, putative
XP_821108 Trypanosoma cruzi strain CL Brener EAN99347 Trypanosoma cruzi serine/threonine protein kinase /serine/threonine protein kinase, putative
XP_847867 Leishmania major strain Friedlin AAZ06629 protein kinase/serine/threonine protein kinase, putative
XP_779068 Giardia lamblia ATCC 50803 EAA42577 protein kinase/GLP_49_88961_90850
XP_842487 Leishmania major strain Friedlin protein kinases, putative, protein kinase, putative
Smo_ASK1_126_1
XP_478875 Oryza sativa (japonica cultivar-group) BAC83176 BAD30159 putative SnRK1b protein kinase/putative SnRK1b protein kinase /putative SnRK1b protein kinase
XP_842787 Dictyostelium discoideum AX4 AAO51273 Dictyostelium discoideum EAL68768 putative CAM kinase/similar to Dictyostelium discoideum (Slime mold). SNF1/AMP-activated kinase /putative protein serine/threonine kinase
XP_110081 Guillardia theta AAX28005 SNF1-related protein kinase
gnl|CMERCMC0070_GIN4-like_protein_kinase
XP_427031 Gallus gallus PREDICTED: similar to serine/threonine kinase 29; chromosome 11 open reading frame 7
GB6443 Homo sapiens protein kinase SAD1B
BAD18671 Homo sapiens unnamed protein product
CAG02397 Tetraodon nigroviridis unnamed protein product
XP_686605 Danio rerio PREDICTED: similar to serine/threonine kinase SADB
AB78446 Mus musculus putative serine/threonine kinase SADB
CAC35950 Homo sapiens hypothetical protein
XP_551955 Anopheles gambiae str. PEST EAL38721 ENSANGP00000026774/ENSANGP00000026774
XP_648614 Drosophila melanogaster AAF45658 CG8114-PA/CG8114-PA
XP_510253 Caenorhabditis elegans AAS50270 CAA84127 Synopses of Amphids Defective family member (sad-1)/serine/threonine kinase SAD-1 /Hypothetical protein F15A2.6
AAA28663 Schizosaccharomyces pombe
XP_455613 Eremothecium gossypii AAS50737 Ashbya gossypii ATCC 10895 AEL03490/AEL03490
XP_455699 Kluyveromyces lactis NRRL Y-1140 CAA97727 Kluyveromyces lactis CAG98398 Kluyveromyces lactis NRRL Y-1140 unnamed protein product /unnamed protein product
XP_012821 Saccharomyces cerevisiae P34244 CAA50456 CAA81941 AAB07455 Nim1p-related protein kinase that regulates the morphogenesis and septin checkpoints; associates with the assembled septin filament; required along with Hsl7p for bud neck recruitme
XP_462146 Debaryomyces hansenii CBS767 CAG82600 hypothetical protein DEHA0G14817g/unnamed protein product
XP_455264 Eremothecium gossypii AAS54568 Ashbya gossypii ATCC 10895 AFR060Cp/AFR060Cp
XP_455266 Kluyveromyces lactis NRRL Y-1140 CAH01120 unnamed protein product/unnamed protein product
XP_012821 Saccharomyces cerevisiae D12523 AABB4944 AAA75313 Protein kinase involved in bud growth and assembly of the septin ring, proposed to have kinase-dependent and kinase-independent activities; undergoes autophosphorylation; similar to Kcc4p an
XP_009907 Saccharomyces cerevisiae P25389 CAC42961 Protein kinase of the bud neck involved in the septin checkpoint, associates with septin proteins, negatively regulates Swe1p by phosphorylation, shows structural homology to bud neck kinases Gin4p a
XP_459918 Debaryomyces hansenii CBS767 CAG88180 hypothetical protein DEHA0E14641g/unnamed protein product
XP_567838 Cryptococcus neoformans var. neoformans JEC21 EAL18171 Cryptococcus neoformans var. neoformans B-3501A AAW46321 Cryptococcus neoformans var. neoformans JEC21 serine/threonine protein kinase /hypothetical protein CNBKF910 /serine/threoni
AAU06561 Aeqotoxina cannum serine-threonine protein kinase
AA00162 Xenopus laevis Unknown (protein for MGC:49586)2
CJ06441 Leishmania major protein kinase, putative
XP_828395 Trypanosoma brucei TREU927 AAX69375 Trypanosoma brucei AAZ12858 serine/threonine kinase /serine/threonine kinase, putative /serine/threonine kinase, putative
XP_812545 Trypanosoma cruzi strain CL Brener XP_816278 EAN90994 Trypanosoma cruzi EAN94427 serine/threonine kinase /serine/threonine protein kinase /serine/threonine protein kinase, putative /serine/threonine protein kinase, putative
CA37056 Leishmania major protein kinase, putative /serine/threonine kinase, putative
AAB83208 Glycine max SOS2-like protein kinase
AAL37170 Brassica napus CBL-interacting protein kinase
ATAT4G30990 = NP_194825 CAA18197 CAB78841 AAF86005 AAK26843 AAK59551 AAK93728 AAL32013 CIPK6 (CBL-INTERACTING PROTEIN KINASE 6); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative protein kinase /putati
AAD31900 Mesembryanthemum crystallinum putative serine/threonine protein kinase
AAD28506 Oryza sativa (japonica cultivar-group) putative CBL-interacting protein kinase
XP_462621 Oryza sativa (japonica cultivar-group) BAD06869 BAD06913 putative CBL-interacting protein kinase/putative CBL-interacting protein kinase /putative CBL-interacting protein kinase
ATD2G29080 = NP_180940 BAA77716 BAB08001 BAB11739 AAK14662 AAK26846 AAK59593 CIPK7 (CBL-INTERACTING PROTEIN KINASE 7); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /SNF1 related protein kinase /SNF1 relate
AAK96877 Arabidopsis thaliana SNF1 related protein kinase
ATAT4G14580 = NP_193194 CAB66060 CAB78500 AAG51367 CIPK8 (CBL-INTERACTING PROTEIN KINASE 8); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /SNF1 like protein kinase /CBL-interacting
AAL99191 Oryza sativa (japonica cultivar-group) unknown protein
XP_468974 Oryza sativa (japonica cultivar-group) AAS07272 putative serine/threonine protein kinase /putative serine/threonine protein kinase
XP_918204 Oryza sativa (japonica cultivar-group) BAB61199 BAD67597 CIPK4-like protein/OsPK4-like protein /putative Serine/threonine Kinase
AAP03873 Nicotiana tabacum AnPK2-9 apple-related protein 216
ATSQ01820 = NP_195802 CAB62752 BAB11737 AAK16989 AAK25899 AAN13222 ATSR1 (SERINE/THREONINE PROTEIN KINASE 1); ATP binding /kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative protein /serine/threonine protein kina
ATD2G30340 = NP_181005 Q2S252 AAC16828 AAC16829 AAK26844 AAK59554 AAP37028 CIPK11; ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /CPK11 ,ATATH CBL-interacting serine/threonine-protein kina
ATD2G30490 = NP_181383 AAC67369 AAL47845 AAN10329 AAM14092 AAN18106 CIPK22 (CBL-INTERACTING PROTEIN KINASE 22); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /CBL-interacting protei
ATD2G31180 = NP_180965 AAC27394 AAK16988 CIPK13 (CBL-INTERACTING protein kinase 13); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative protein kinase /CBL-interacting protein kinase 13
ATT1G29330 = NP_174217 AAF88116 AAK59695 CIPK18 (CBL-interacting protein kinase 18); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /Putative protein kinase /CBL-interacting protein kinase 18
AAD17040 Pisum sativum calcineurin B-like-interacting protein kinase
ATAT1G07160 = NP_193920 CAB75615 CAB78872 AAK16687 AAK26847 AAL24301 AAN05037 CIPK12 (CBL-interacting protein kinase 12); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase /putative protein kinase /putative prot
ATAT5G08310 = NP_196793 BAB30939 AAK30247 CIPK9 (CBL-interacting protein kinase 19); ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-t