

Supplemental Data 2. Predicted protein sequences of the 125 OsWAKs.

>OsWAK1, AK065470, Chromosome 1, protein sequence
 MHPTLLCLPLLASLLLLCHRRARAECEPATCGNLTVRYPFWLGGPNFNQSNQSSPSSALAS
 CGHPAFEVWCNGGVASLRGSQI LVLSI DYNSSSFVAHKRVADGGDGVCRDTFNI SSSLA
 LSPFTI SSSNRAI CFLYSCNGTEPPEI DGLVNATI SSCSKPI YAYLGGI YDRDNPPAI KA
 GNCTYSYLPVLWPDSPANL TAGTNYSPOFKKGFVLEWQKNGFGDCDACNGSGGQCRYI ND
 SAAAFACLCSDGKLRRSTCPGSRKSHI I GI ACGSSGGI LLI VSI FI FAWHKRKKRKQTR
 DLKDLMHSSSSMQSYSKDLELGGSPHI FTYEELEEATAGFSASRELGDGGFGTVYKGLR
 DGRVAVKRLYKNNYRRVEQFLNEVDI LSRLHQLNVI LYGCTSRSSRDLLLVEYI PNG
 TVADHLHGPRAGERGLTWPVRMTI AI ETAEALAYLHAVEI I HRDVKTNNI LLDNNFHVKV
 ADFGLSRLFPLEVTHVSTVPQGTGPYVDPVYHOCYKLTDKSDVYSFGVLI ELI SSKPAV
 DMSRSHSDI NLANMALNRI QNHEVDQLVDPEI GYETDSETKRMVDLVAELAFQCLQMDRE
 SRPPI KEVVEVLNCI KNGECPAEKMNKNASPKEDSHLLKDSLOQSPDSVI HRFHSQSTNH
 SVASNSSG

>OsWAK2, AK072170, Chromosome 1, protein sequence
 MHPALLLLPLASLLHAAAAI GHNETSTSGNTSCTPARCGNLT I SYPFSLSGVQPVSCGY
 VLDLTCDNRTGRAFLSRTFRDHLFRVDSI FYENNSLVAAVETTFAGDADCPVPDFNVTSS
 LSPYPI I SNTNKYLAFI YDCSI PEHVGLQORPCGNRTMGAYI SDKWNSTPPSGVRGNCN
 SVSVPVRGYDGMKPVSGHYEQLI KDGFVLEWMRSVMGDQDCDGCRRRGGEQFELSFO
 CFCPDGLLCSNSTRNTTSSHPSGKVNRI KI AAGTAAAVVCLGI LGVGSTVLYTRRKRK
 RSASFGLI HGGTPLPSLTKEFSLAGLAYTHI FTYEELDEATDGFSDARELGVGFGTVY
 KGI LRNGDTVAVKRLYKNSYKSVEQFQNEVGI LSRLRHPNLVTLFGCTSQTNSRDLLLVI
 EFVPNGTLADHLHGGAARSSSLDWPTRLGI AVETASALEYLHTVEPQVVRDVKTN I L
 LDEGFHVKVADFGLSRLFPADATHVSTAPQGTGPYLDPMYHOCYQLTDKSDVYSFGVLI
 ELI SSKPAVDMNRRGGDVNLANMAVHMI QSYEMEQLVDPQLGYASDGETRRTVDLVAEVA
 FRCLQPEQDVRPPI GEVLDALEAQRMDKVGKDDAGLVKKSRDGPDCVMYQWI SPST
 TSNSS

>OsWAK3, 4748.t00012, Chromosome 1, protein sequence
 MESVCACAWPTAPTVALFATGYEEGVAEAPHDVPMTNGHVVFQVENNCSLRYFTEN
 EI ROI TRGYI LLGKGSFGKVYKGMLDGRCPVAVKRYI HGTRKEEFAKEVI VHSQI NHKN
 VVRLGCGCTEENALMI VMEFI CNGNLNDI LHCSNTNGRVPFSLGKRLDI AI EVAEVLWCM
 HSMYNPVLHGD I KPANI LVDENLSPKLSDFGI ARLLCANGAQHTNNI I GSI GYVDPAFCM
 NGI LTPKSDVYSFGVLLI I TRKKAVDGTI TLAQRFTAEVEQGGKVMHLFDEDI NNTKN
 MNFLEDI GKLA VKCLRREVEVRPEMVEVATSLRMI RKALEEEEEGNLI QQNI SAPSNSI PS
 KNVKSAAQFGNLKI FKQEEI KLMTKNYSMKFREEFCERLYNGVI GTTHAVI VKQVSTSS
 ESDRMMFLKTM I LSQKYHKNI ANVAGFHLGDSI SECVEYSCCDLSQGNLGHVFCNRNL
 YDI I CTREKLPLHLRLSI AVQCAEGLVHI HSLLAENPDSHSTGLLGNFRSI NI FLDKNFV
 PKVFNSNLSTFLGLSVMOKHTASVDRPNQDQSI YYLDGRDI SGQLFNPKSDVYSFGAVL
 LELI TWKTVRYMSSGRVHMLTKDFLDYRI DHSAAI SFGKKVYDEQASGDNKPNQHVAPP
 LTKKFVKTPPTI VSI I PLNI LEKI TSNFSNDALI GEGPDARVFFGELSDGQKSAI KKLDP
 NEKI VVQVLT I SRMLKHDNI VOI LGYFI EGENRVLAYEYAPKGLHDI LHEGVGAQPGT
 PLSWEQVRKI ALSAAGLEFLHEKAVPPVI HTNI RSSNI FI FGNDVAKI GDLGVSKQLYP
 ESDNDYYNTRLYPLRSFGYDAI APEYAMKDFHA*

>OsWAK4, AK064374, Chromosome 1, protein sequence
 MNLFDEEI NDKQNMNFLEDI GKLA VKCLRRDVKVRPEMVEVATSLRMI RKDLEGEQGNLTQHTSTPNN
 TPSKNESAGROFGNLNI FKQEEI KHMTNYSMTFREEFHERLYNGVLGMVHAVI VKQVSTSSKTDREVF
 LKTMGI LCQKYHKNVANVAGFHLGEYI SECVEYSCCELSQVNNH I SFSNRNLYEI I CSTEKLPLHVRLS
 I AVQCLEGLVHI HSFLAENPESRGTS LFGNFRSANI FLDKNFMKPVFNANLSTFLGLCAVQOCTASVDCI
 HDORSQKYLLDPKDVSDHLFNPKSDVYSFGVLLI I TWKTAKYKSGGOAHMLTTDFLDYRI DHSATDF
 FVKKVYDEEGKCFLEHAI AI GVECLKLDVQMRPEMSDVLRLRI I SAAQSI RSKLMGPOAKDCGDNGPSQ
 YI APTPVNNDVKI PSPPTSASTI SLDI LKKI TRNFSNLSI GEGSHAKVFFGVLDGKNSAVKKLNPNEE
 TI VQVSTI SKMLKHDNVQI HEYFI EGENHVLVYEPKGLHDI LHGREGVTGAQARPPLSWVQVRI A
 I TAAKGLEFLHEKAVPPVI HTNI KSSNI LLFGNDVAKI GDLGVSKQLHVEDYDYSYTRVVPQI FRYEAP
 YATQCFHAFRLH

>OsWAK5, 2768.t00008, Chromosome 1, protein sequence
 MASAI LLSI AI MAQLSSI SAQPAPGCQSHCGDMEI PYPFGI GTECAI EPGFVI YCNKTADGSMKPFLLI NV
 EVLNI SLLHGQTRALNALSTYCYNDVTKSMESSRWLDFSTWYPYRFSNLHNKFFVI GCNTLSYI YNGEYT
 TACASVCAKAPTNDSCDGVGCCQNNI AKGLNSYNVTFFTVYNDSSNLQSNPCSYAALVETDTFRFKTEYV

OsWAKs-Supplemental Data 2[1].txt

TTMKFNETYNGQOPVVLDAI GKVGCKEANMTSYACRSKHSECVDSI NGPGYLCNCTLGYPYHGNPYI TDGC
I DVNECEQNQSPCKGATCRNTEGWYHCSCPVGKRLAKETNTCNPD I SLI I GVS I GSI VLVI I I FFVRI I
FERRKLT DVKKKYI QEHGGLLLFEKMKSDOGLAFKVFTOAELEOATNKFEKSOI LGHGGHGT VYKGI TKD
NI TVAI KKCALI DDRHKKEFGKEMLI LSQI NHKNI VKLLGCCLEVDVPM LVYEFI PNGTLFDLI HGKNRT
LHI PFSSLLRI VNEAAEGLAF LHSYANPPI LHGDVKT SNI LLDENYMAKVSDFGASI LAPNDEAQFVTMV
QGTCGYLDPEYLQTCQLTEKSDVYSFGVVI LEI LTGQMP LKLEGSELOKSLSSSFLLAMKENNLEAMLDS
QI KGHEMELL SGLAELAKQCLDMCSEN RPSMKDVAEEI SRLRKL SKHPWI QRDSETEGYLSGPSTSNFE
I EQSTEYTRKDEQMPI NPSTSYFI R

>OsWAK6, 2768.t00013, Chromosome 1, protein sequence
MTI PFPFGLQEECSANRKFLLNCTSKQAFI GGSYTQYQVTNI SLDOGLLFVNFSQHEEAY
SELVEI SRDNI SQWVESWI DEFNDFDV SQHYGI WKWFVTNMTCEKAKKSSAYACI STNDI
DECSI PNDCKGMCHNQAGGYSCTRCPHGTSFDP AERKCTSTKQHNI VLGI SHFNRS LFNK
I TVKWK RGI QKKI RRDYFHKNKGLLLEQLI SCDDSVAHKTKI FSLDELEKATNNFDSTRI
LGSGGHGT VYKGI LSDQRVVAI KSKI VEQSEI DQFVNEVAMLSQI I HRNVVKLFGCCLE
SEVPLL VYEFI SNGTLYDLLHGNLQSKCVLTWNNRI RI ALEAASALAYLHCAASVPI FHR
DVKSANI LLDNFTTKVSDFGASRSVSI DETHVVTI VQGTFGYLDPEYYHTGOLNEKSDV
YSFGVI LI ELI TRKRPI FLNSI GEKQNLCHHFLQRQONNTTSEI VDVQVLEEADQWEI DE
I ASLAEI CLRLRGEQRPKMKEVELRLQLLR SKVAKKKNRVESI G*

>OsWAK7, 2768.t00019, Chromosome 1, protein sequence
MSPKLLLSVALVMLHLASI SAQPNPWCKKQCGDVKI PYPFGI GTGCAI GEGFEI I CNRNA
DGI DQPF TGN I EVLDI SVVYGRSRVLGSI TTNCYNSSTGSANVNSWMDLSTSPYRFSDA
YNTFVVI GCNTLAYI YNGLNRTSYTTACASVCGGPEDLTNGSCLGVGCCQNANAI PKGLT
RQDI YLYTI YNTSESDSWKFNPCSYAALVETESFSFSTEYI TTMRFNDTYEGQOPLVLDW
AI GDVSC EAVKNMTSYACHSGNSI CVDSKNGPGYLCNCSEGYQGNPYLPDGCTGKFSSSL
CNSLSLYLQFNEI LNDVLS DYLG VNLKPSFPM SKVI CNKRDDTSYI GGI SSFFY*

>OsWAK8, 2768.t00020, Chromosome 1, protein sequence
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LI I GI CI GSVALVI TI FFMRLMFERRKLT DVKKKYFQOHGGLI LFDKMKSDOGLAFKVFT
QAELEHATNKFEKSOI LGHGGHGT VYKGI TKDNI TVAVKKCALI DDRHKKEFGKEMLI LS
QI NHKNI VKLLGCCLEVDI PMLVYEFI PNGTLFDLI HGKNRTFHI PFSSLLRI VNEAAEG
LAFLHSYANPPI LHGDVKT SNI LLDENYMAKVSDFGASI LALSDEDDQFVTMVQGT CGYLD
PEYLQTCRLTDKSDVYSFGVVLLEVMTGQMP LKFEGPEI QKSLSSSFLLAMKENNLEAML
DSQI KDHEMELL SGLADI AKKCLDMCSDNRPSMKEVSEELSRLRKFSKHPWI QRDTEI E
SFLSGPSTSNLETEHSYLSGPSTSNFEI EHNT EYRRKDEEMPI NPSTSYFI R*

>OsWAK9, 2768.t00022, Chromosome 1, protein sequence
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RKNKGLVLERLI SSDESVAHSTKI FSLEELERAPDHFNSTRI LGRGGHGI VYKGI LSDQ
RVVAI KRSKI VEQGEI DQFVNEVAI LSQI I HRNVVKLFGCCFESEVPLL VYEFI SNGTLYD
I LHGDMSTEC SLKWDDR VRI SLETASALAYLHCAASI PI FHKDVKSANI LLDNFTTKVS
DFGASRSI SI DETHVVTI VQGTFGYLDPEYYHTGOLTA KSDVYSFGVI LVELLTRKKPI F
LNCSGEKQNLCHYFLQSLRDKTTTDM LDSQVVEEGLNGEI DEFVSLAEACLRLRGEDRPT
MKEVESRLQLLRANI TKKI QDESQKNVEAMQLFPSVYDSTSFTQNVDI GMDADSLTQLAS
TCHTMEQELVSLTR*

>OsWAK10a, AK102164, Chromosome 1, protein sequence
MAHLPLLLLSFLLLI GVHASVSDGSPLPHTYNTSI CSKSYKCGGVNI SYPFYLSNATGET
YDYTFQSCGYTDLNI TCSWDGSKQTPFI QLNGDNYTI LEI I YDSRTI VLVDTDALRGGSC
PRVRHNI TFSQADEWLQYTGRDNL TFFFGCNLVLPMPDPGLTRFVDKNQI NCKDFS NW
PDGGDSFVFTSVELEAPMEYELASRCROVI VVPVNGSI LNSSSQSALPSGEYGOVLKKG
ELAWKSRKDKQCNLC EQSRGQCAYSQNRFTLGCLCADGKVSSTDCTSRSNLKT KI I AGVV
GGGLSAVFALGLI ATVFVVRKRKHKKVNSSSKLLKYSGSGGTPRSMGGDMESGSVKDLQT
HLFSYEEATDSFNENLGDGGFGTVYKGI LRDGRVAVKRLYNNSYRRVEQFVNEA
AI LSRLRHPNLVMFYGCTSSQSRELLLVYEFVANGTVADHLHGHR AQERALS WPLRLNI A
VESAAALTYLHAI EPPI VHRDVKT TNI LLDADFHVKVADFGLSRLFPLDVTHVSTAPQGT
PGYVDPEYHQCYQLTDKSDVYSFGVVLVELI SSKPAVDI TRORNEI NLAGMAI NRI OKSQ
LEELVDLELGYESDPATKKMMTMVAELAFRCLOQNGEMRPPI KEVLEGLKGVQDLCVMEK
DGGKDKKGPDPPLSPDTVHAQWDSRQTTNPNTSQ

>OsWAK10b, AK100606, Chromosome 1, protein sequence
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ALPKYANSSTFCGYPGLEI I CDGGGGGKAVMMLGNDSTYVSRI DYASLTVSLADADVANG
TCPVVSHNVTI PPAPSSLHLADTVGMLI FFFRCAFGPAANAPPKPSI HPLTCGENSEDA
PTQSFLLPASPLPPGDLWHRGCSAVYGVVPLGGSLPSDANDPAWRKDGVI ASLRKGFQMS
WDRSDRCSRCELTSGKCGYNQNGKFLGCLCANGLVSDACSKI SDSTLRLAGSNLTKTI I
AGVVGGGLSAVFALGLI ATVFVVRKRKHKKVNSSSKLLKYSGSGGTPRSMGGDMESGSVK
DLQTHLFSYEELEEATDSFNENRELGDGGFGTVYKGI LRDGRVVAVKRLYNNSYRRVEQF
VNEAAI LSRLRHPNLVMFYGCTSSQSRELLLVYEFVANGTVADHLHGHRALSWPLR
LNI AVESAAALTYLHAI EPPV VHRDVKTNI LLDADFHVKVADFGLSRLFPLDVTHVSTA
PQGTGPGYVDPEYHQCYQLTDKSDVYSFGVVLVELI SSKPAVDI TRORNEI NLAGMAI NRI
QKSQLEELVDLELGYESDPATKKMMTMVAELAFRCLOQNGEMRPPI KEVLEGLKGVQDLC
VMEKDGGKDKKGPDPPLSPDTHAQWDSRQTTNPNTSQ

>OsWAK10c, AK066381, Chromosome 1, protein sequence
MGGDMESGSVKDLQTHLFSYEELEEATDSFNENRELGDGGFGTVYKGI LRDGRVVAVKRL
YNNSYRRVEQFVNEAAI LSRLRHPNLVMFYGCTSSQSRELLLVYEFVANGTVADHLHGHR
AQERALSWSPLRLNI AVESAAALTYLHAI EPPV VHRDVKTNI LLDADFHVKVADFGLSRLF
FPLDVTHVSTAPQGTGPGYVDPEYHQCYQLTDKSDVYSFGVVLVELI SSKPAVDI TRORNE
I NLAGMAI NRI QKSQLEELVDLELGYESDPATKKMMTMVAELAFRCLOQNGEMRPPI KEV
LEGLKGVQDLCVMEKDGGKDKKGPDPPLSPDTHAQWDSRQTTNPNTSQ

>OsWAK11, 3783.t00017, Chromosome 2, protein sequence
MTGVVPWMI LATTLLLATI SFSAAARMAPRCRGTCGNLTI PYPFGI GAGCFYTDGFDVS
CEENRTYMHNSSSNMEI YSLNLI GGQAQVSTFI ADKCSNNTDGTSTDGWVSTSTAPFFTL
SSRANKLTVVGCNTLAFLGGYNEEQNVGAGCFSMCPDKQSVSDSSGQCSGMGCCQTSI AP
NLTSLNVTDFSRFNNSEVNSFNPCSYAFVAEQDWRFEPTYLEGHKFTDKYKGVPTVLDW
VAGRESCAQAPKNRTSYACVSTNSSCI NSPNATGYLCACNNGFAGNPYLEGGCQDI NECE
SPGQYCHGI CDNTI GGYHCYCGPGTQSTDPKREPCNPI TASERARLTKTFI GI SVCAI I L
LSCTFALLI ECQKRKLMKEKERFFQONGGMLLYEQI RSKQVDTVRI FTKEELENATDNFD
SSKELGRGGHGTVYKGI LKDNRI VAI KRSKI MNMVQKDEFVQEMI I LSQI NHRNVVRLLG
CCLEVEVPMLVYEFI PNGTLFEHI HGKYRTTSI SLARLRI AQESAEALAYLHSSASPPV
VHGDVKSPNI LLGDNYI TKVTDFGASRMPLKDEI QFMTMVQGTGLGYLDPEYLOERQLTOK
SDVYSFGVVLLELI TGKTAI YSENTTEKKSLASSFLLALKENRLESI LDRNI LGVGTSELF
QDVAQLAKCCLSTKGEERPLMTEVAERLKAIRSTWREQLI EGANEETVCLLENSSQYDPS
TTGRHGSLMALDI ETGR*

>OsWAK12, 4362.t00002, Chromosome 2, protein sequence
MQPSETCLRRCGDVEI PYPFGVSGCHLETGDTFVLSCNRSADGRLRVYNYEI EVVDVS
VRRGQLRI YSAI NPWCYNGSTSAMNGOSNWWYDMSI TNFRI NDALNRFTVVGNSLAYI L
SPNGTAGADRYMTGCMAMCPGAGRLEKENGSCAGVGCCQTAI PAGLNGYQVSFEKFNTS
AI AGFSRCSYAVLVEASAFDFRASYVTTDEFMASNGGQLPLVLDWAI GNKTCEEAKRNAS
AYACVSANSECVDSDRYGRGRGYLCNCSAGYDGNPYLLDGCQDI NECDESFRYPCSVPGT
CVNTPGGFTCTCPDKTI GNAYNGTCGDNKSQLGWKI AI GI SSGVVI LI I TASCVYMI HAK
RRLAKI KREHFROHGGLLLFEEMKSROGLSFALFTQEELEQATNRFDERNVI GKGGNGTV
YRGTI AKDNGAVVAI KRCRLATERQKKEFGKEMLI LSQI NHRNI VKLYGCCLEVEVPMLV
YKYI PNGTLYRLI HGGEAGASARRI PFAARVRI AHQAAEALAYLHSSWASPPV I HGDVKTS
NI LLEDYAAKVSDFGASTLAPADAAQVTFVQGTGCGYLDPEYMRTCRLTDKSDVYSFGV
VLLELLTCRKALNLEEEEEEKYLSSQFLLAVGEGRLGEI LDPQI KGEQSMEVLEQVAELA
KQCLEI SGEKRPSMREVAEELDRGLKLSLHPWGPNSGELAALLGGSPSMAADSDQI ELS
TSTRNI SFSDTAYI GI RSPR*

>OsWAK13, 4362.t00004, Chromosome 2, protein sequence
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SDSWFHVSDEGNRLVVVGCNSLAYVTSVNETEYMTGCMATCPSVGRLENGSCSGMGCCCEA
AI PRGI NSYVVGFEKFNNTSGAVGRCSYAVVVEAASFERTTYVTGDFVESTGGKVPL
VLDWVVGKKTREARRNATGYMCVSRDSECVDSRNGPGYLCNCSAGFEGNPYLLDGCQDI
NECEDSRFKYPCSVPGTCI NTPGGFRCSGCPDKTTGNAYFGTCEAKKSQLGVHI AI GVSIG
I ALLVI I MSSAYMI QOKRRLATVKRRYFNQHGGLLLFEEMKSNOGLSFTVFTKDELEEAT
NKFDERNVLGKGGNGTVYRGTLKDGRRVAI KRCKLI NERQKKEFGKEMLI LSQI NHRNI V
KLHGCCLEVEVPMLVYEFI PNGTLYQLI HGGRHGSRI SFAARLKI AHEAAEALAYLHSSW
ASPPV I HGDVKSPNMLI DENYTVKVSDFGASTLAPTDEAQFVTLVQGTGCGYLDPEYMQTCK
LTDKSDVYSFGVVLLELLTCRKALNLOALEEEKNLSSHFLALSENRLLEGI LDSQI QSEQ

OsWAKs-Supplemental Data 2[1].txt
SI ELI EQMADLAKQCLDMSSEKRPMSRQVAEELDRLRKLAEHPWGRHESEELEKLLVRGS
PSTFSEI ELSNGYVSLTDSAYLGI QSPR*

>OsWAK14, 2541.t00004, Chromosome 2, protein sequence
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I SWVAPTEGI TI DHYNTFYVI GCNFDATLFEYGTEDLI GSCMSRCDGEKAPI GGPCNGMG
CCFI ELPRVLRGFQSTI I LRS DGI PVAQTDVPHPGI MAFMSSDYYI SNTSDLFLGWTNTS
NVEGTVLSFATI DQPS CERARMNNTSYACSPGSNCRNVSSGGYHCYCSGYEQGNPYLLDG
CTDYNPKYKEHCSTSCGDMKI PFPFVGEEGCFANERFRLNCTEGNLTVC ELGEAQYHVTA
VSLDDGTLTVGNMNDNTNYESKEAI I VQTTDTGRDYSFSGPVEDRFDLSMEYAI VI RWA VT
NLTCEVAVQKNTTYACRSSHSYCLNVTHRKEFMGYRCKCSPGFEGNPYI EDGCTGI AI GI
GCGLGSI VI VLGAMI LANKWRKGI QKRI RRAYFKKNQGLLLEQLI SNESATNKTKI FSLE
ELEEATNNFDGTRVLGRGGHGT VYKGI LSDQRVVAI KSKI VEQTEI DQFI NEVVI LSQI
I HRNVVKI FGCCLESEVPLLVEFI SNGTLHDHLHTDLSVRCSLSWDDRI RI AVEAAGAL
SYLHSA AAI PI FHRDVKSSNI LLDGSFTTKVSDFGASRSVSLDETHVVTI VQGTFGYLD P
EYYHTGOLTEKSDVYSFGVI LVELLI RKKPI FI NEAGAKQSLSHYFVEGLOEGSLMEI I D
POVVEEANKKEI DGI ASLTMACLKVKGVD RPTMKEVEMRLQFLKTKRLRK FOLLPGNDGE
I EHLLSPNTSNSYAQNI YTNAGDLTSEGI PGSGCYSLEQELSSSI SLPR*

>OsWAK15, 2541.t00005, Chromosome 2, protein sequence
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FGI GGGCFRDGFELTCNTATKTPKLLVANSTTQI TAMEYDMALAPMYFNFTTROGMDTYN
I SWVSPAKGI KI S DENTFYVCCNF DATLFEFGTGDFV GSCMSRCDI EKAPI AI GQPCNG
NGCCSI KLSRDMRGFQSTLVQAEAAAQI SDPLHHGI MAFMSYTDYYVRNASDLFLSWTNV
SNVEGAELQFAI TDQPSG SALVNKSSYACTTGSNCQNI SSGYTCECTNRYLOGNPYI L
GGCNMQDHI TVLETSEAQFI VTNVSVEDGTLTI SNLLNNT EYGREI LI TQGHGT VYKGI L
SDQSVVAI KSKI VEQTEI DQFI NEVAI LSQI I HRNVVKLFGCCLESEVPLLVEFI PNG
TLHDRLHTDVSVKSSLSWDDRI RI ASEAAGALAYLHSA AAI PI FHRDVKSSNI LLDGSFT
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KPI FI NDVGTKQSLSHYFVDRLREGSLI EI I DYQVLEE AHREDI DDI ASLTEACKLRGG
DRPTMKEVEMRLQFLRTKRLRK FQFLPVP GSGGEI QHLLSPNAGKSQAQNNYTSAGDLSY
EGI SSCYSLEQELSSSVSLPR*

>OsWAK16, 2541.t00008, Chromosome 2, protein sequence
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NI SWVSPRKGVTI SQRNFTFYI I GCNI DVTLF EYGT RD AVGYCVSRCDGEKVPTEGPCNGK
GCCSI KLSRDLRGFRSTLVQVDATAAQSYQLQLRHGVMAFMSYNDYYVDNATDLFLSWTN
TSNI QEALVQFAI MDQPSCEI ARMKNTSYACSTGSNCLNMSSGGYTCECANYDLYYYYAE
QSPYLLEGCI I RGNI TLFNPRDARYNVTDVSI EEGTMVVS NLLNDTEYGGEDI I SOVYGG
AEI KWAVANLTCDAAVKKDATYACRSI HSNCLNVTHGNI FMGYRCKCLPGFRGNPYI QDG
CEGI TTGI SCGI GSI I I ALGAI I LANKWKSI QKRI RRAYFKKNQGLLLEQLI SDESATN
KTRI FSLEEELEATNNFDGTRVLGRGGHGT VYKGI LSDQSVVAI KSKI VEQTEI DQFI N
EVAI LSQI I HRNVVKLFGCCLESEVPLLVEFI PNGTLHDRLHTDVSVKSSLSWDDRI RI
ASEAAGALAYLHSA AAI PI FHRDVKSSNI LLDGNFTTKVSDFGASRSVSLDETHVVTI VQ
GTFGYLDPEYYHTGOLTEKSDVYSFGVI LVELL TRKKPI FI NDVGTKQSLSHYFVDRLRE
GSLI EI I DSHVLEE AHREDI DDI ASLTEACKLRGGDRPTMKEVEMRLQFLRTKRLRK FQ
FLPVP GI GGEI QHLLSPDTGKSQAQNNYTSAGDLSYEGI SSCYSLEQELSSSVSLPR*

>OsWAK17, 2421.t00020, Chromosome 2, protein sequence
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VFNESQVEQFVNEI SI LSQI DHPNVVKLLGCCLETQVPLFDSYDNC SRNNWI PYSOLTEK
SDVYSI GVVLAELLTTEKPVSFARPEDLRKLAMYLVMLVNKGCI LOAVKPI I LAEAREE
QLYDVAHLSI MCLSLKGEQSTMKEVASVLNGLRRSLAKDKAI KGKEVYPQNKEEEEEYLL
PGSGVGSSSTLHSSSEGRQCSMEVEMI ASCHLTR*

>OSWAK18a, AK105477, Chromosome 2, protein sequence
MSSKLCFSSGLASPLSQGCSWYLLSI SSFSATSFI I GRSSPLMLTHRI TRCVI SWSTSSV
I SFLTWLSI SSSWRPSLTAVMKQDTRLLSSSDPPK

>OsWAK18b, AK103831, Chromosome 2, protein sequence
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OsWAKs-Supplemental Data 2[1].txt

RPPARGCAASDVVI VGVNQVAKDGAPEHDKAVPRCGEPVGDAAAVVRRRAVPTDCFEAVV
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DVPALVGAARPWLSRRCRCHRRQADEHDG

>OsWAK19, 2477.t00018, Chromosome 2, protein sequence
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NYTYVTGCTSTCRRSQSQDLPQGCTGESGCCQNTMPRALNVYKPYI LTLNKTEEPTRNV
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VGSCDI AGRRAPTAI RFEI *

>OsWAK20 9630.t05379, Chromosome 2, protein sequence
MALAPATPASAQPLPGCPDKCGNI SI PYPFGI GAVCARGPKFQLECNHTYSPRLI AVI D
SQSNLEI HLESLSLADGEARI YNNASRSLYNHSTGDLVRTNDVVYFLGREGPYRFSSAK
NRFVALGCPNLGLLLDATENYVTGCI SLCRSSPLAVSAGACAGVGCCQSSI PSGLHTYYV
NQDKPKNVTLQYYAATDYRYVFLADAEWLSTSYRGDFNRTGDFAVPVVLDWAI REVGSC
AAMRNKADYACRSANSDCVSTEGEGYRCNCSRGEYGNPYLDGGCQDI DECERDKDACFG
NKCTNTLGGYLCMCPPGARGNPLI EKGCVKTDLGLTI GI GVGSGAGLLAMAFGAVFLTRK
I KNRRANMLRQMFVKQNRGHLLOQLVSQNTDI AERMI I PLAELEKATNKFDESREI GGGG
HGTVYKGI LSDLHVVAI KKSVAI QREI DEF I NEVAI LSOI NHRNVVKLFGCCLETEVSL
LI YEFI SNGTLYHHLHVEGPLSLSWEDRLRI ATETARALGYLHSAVSFPI I HRDI KSHNI
LLDGSALTAKVSDFGASRCI PAEQTGVTTVI QGTGLGYLDPMYSYTGRLTEKSDVFSFGVVL
I ELLTRKKPYSYRSPEDDGLVSHFTTLLTRDNLGHI LDPOVVEEGKEVKEVALLAVACV
KLKAEERPTMRQVEMTLESI RSLFLQOEAI HSMANKSSKENHVSMSYPANEGTSMESTKO
YSLEEEYLLSSRYPR*

>OsWAK21, 2477.t00014, Chromosome 2, protein sequence
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LFCNHSYFPPRLTFFPPLPTPTSI LAGRRLNLASLSI ADGEAVALVNVFROCYSSNESYV
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SVSPAAGTGVGCCQSRI PPNVTYYEASVQGFQEAQRI FRENTTSCRYAFVVEDRWVDTT
YRDSADFNRTDDFAVPVLDWAI RNVANCDI AKRNRTDYGRSTNSDCVDSTNGVGYRCK
CSNGYDGNPYLDGGCTDI DECOHLDKYPCHGVCTNLLGGYKCDCPHGFSGDAI KNDCRPN
DKFTLALKI VTGVSVGVLVSVFMCFWLYLGLQKRKLI RTKQRFQNGGVI LQQQMHSGG
GTGGFKI FSTEELKKATNNFAADRVLGRGGHGVYKGVLEDNMVVAI KSKMMEEAQTKE
FAREMF I LSOI NHRNVVKLLGCCLEVEVPMLVYEFVSNGTLYHYI HGKEPTTDI ALDNRL
RI AAKSAEALAYMHSSASPI LHGDVKTANI LLDKLNKAVADFGASKLAPTDEAAI ATL
VOGTGCGYLDPEYLMTCQLTDKSDVYSFGVVVLELLTRKKALYLDGPEEDMSLVSRFTTAV
KAGRHRELMDSQVRKEMNDEMATEI ADLLMRCLSMNGEERPTMKEVAERLEMLRRYQOHP
WAEAKDRYRLI SGDSTGYQEPGTAKSSSVAVSSAFEQVLYRHSPRWSSAAAASRPMP EI D
I LRHPCSTPELI AGGRVLRCLALRRARR*

>OsWAK22, 2477.t00012, Chromosome 2, protein sequence
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SLNKSAEENRVEPI YHRLNSTACNYMFLVEDKWI DTTYSYRAYFNRTDDFDVPVLDWAI
RNVNRNCRVAKRNATKYACRSEWSECFDASDGVGYRCRCSNGYQGNPYLDGCTDI DECQD
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MAFWLRRLRLOKRKLI RTROKFFEONGGI FLOQQMRSYGGAGGGVGGFKI FSTEELKNATN
NFAVDRI LGHGGHGI VYKGVLEDNTVVAI KSKMMEEAQTKEFAREMF I LSOI NHRNVVK
LLGCCLEVEVPMLVYEFVSNGTFYHYI HGKDPEVDI ALDTRLRI AAESAEALSYMSSAS
PPI LHGDVKTANI LLDKFNKAVSDFGASKLAPTDEAEI ATLVOGTGCGYLDPEYLMTCQL
TDKSDVYSFGVVVLELLTRKKALYLDGPEEDRCLVSCFTTAVKVGRHQELLDQVRNELS
DEMLQEI TYLLMRCLSMI GEERPAMKEVAERLESRLRYQOHPWAKAEGNEEEI QSLLGME
QNNANYQLRQDVLGLEEGNAYTFSL*

>OsWAK23, AK108554, Chromosome 2, protein sequence
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RDQYFELECNRAYSPRLI VSTHRQHLVNLSLADGEATALI NARRQCYNSTEGLI GDANN
YVNKDI TLVGSNAYRFSARNRFVALGCPNMGYFVDTYGYVSGCTSI CRPSQNGGASGA
STGGCTGEGCCQSRI PTNTDYYELYVQTFKPGEGDPI LRGGTTACRYVFLAEDKWI DTTY
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>OsWAK24, 4897.t00005, Chromosome 2, protein sequence
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 SYTSI NGSTTYRYSPEKNRLVALGCPNLGYI VDGSGNYVSGCMSACRRPSLGNLTVPRLP
 GRCTGERCCQSI I PPTLNFYVPRMFNFENGTAAVDNELRGGTTPCRYVFLVEHTWI NTVY
 NDTKDFNRSDFEAVPVVLDWAI RNVYNCSAAKRNATDYACRSTNSECFDTI DGQGYRCNC
 CQGYEGNPYLDGGCTDI NECLRPEKYGCYGDCTNMLGSHTCVCPPGTSNWTDRNGCRPK
 DNFPLALKVVTGVSQVFLSVFMCFWLYLGLQKRKLI RTKQKFFEHNNGVI LROOMHSGG
 GTHGFRI FSTEELKRATHNFASDRVLGRGGHGVVYKGVLEDKTVVAI KSKMMEEAETKE
 FAREMFI LSQI NHRNVVLLGCCLEVEVPMLVYEFVSNGLTYHYI HGKEPKADI PLDTRL
 RI AAESAEALSVMHSSASPP I LHGDVKTANI LLDDKFNKVSDFGASKLAPTDEAEI ATL
 VQGTGCGYLDPEYLMTCQLTDKSDVYSFGVVMLELLTRKKALYLDGPEENRSLVSCFTTAM
 KVGRHQELLDQVRNEMSAEMLEEI TYLLMRCI SMNGEERPTMKEVAERLEMLRRYQOHP
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>OsWAK25 AK101690, Chromosome 3, protein sequence
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 DASGTAWLGGTRGLGLLVSNVTPRAI VLTLPNCSRPLNESLDALFTDNYAPTAQNALVV
 SSCDPQAAARLNSCSI PPEAYLEKSCNSI RCVLPSTKANVDGTNVTDPFLNRSEMRRLGS
 DCRGLVSASI YSNTAGPALQTLALELDWWVQGRGCSHA I CDGFTPPSTQKEAFRCECO
 EGFEGDGYTAGAGCRRVPKCNPSKYLSCGKLVQI GLLVAGVFFGAMVMGI TCLVYHLL
 RRRSAALRSQKSTKRLLSEASCTVPFYTYREI DRATNGFAEDORLGTGAYGTVYAGRLSN
 NRLVAVKRI KORDNAGLDRVMNEVKLVSSVSHRNLRLLGCC I EHQQI LVYEFMPNGTL
 AQHLQEREGPAVPWTVRLRI AVETAKAI AYLHSEVHPPI YHRDI KSSNI LLDHEYNSKVA
 DFGLSRMGMTSDVSSH I STAPQGTGYPVDPOYHONFHLSDKSDVYSFGVVLVEI I TAMKA
 VDFSRVGSEVNLAQLAVDRI GKGLDDI VDPYLDPHRDAWTLTSI HKVAELAFRCLAFHS
 EMRPSMAEVADELEQI QVSGWAPSTDDATFMSTTSSLCSAPSRCITDKSWGTA KSKRQAA
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>OsWAK26, 4613.t00011, Chromosome 3, protein sequence
 MESSSSVI FLGTGCSGALPDARCLI HPSTPPCPVCSHSLSPERNPNYRCNTSLLI DYC
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 RNLGLKVPI FLTHFTMNSVAARFPYLLKNKLEEGDEGSQVI QLDWTI I EGD I DKPFVSSG
 LEFVPLPVMHGEDYVCLGFLFGRRSRI AYLSDVSR I LPRTEHAI SKSGAGQLDL I LETN
 ELHGEGDAGSCHLTLSQTLNAV KRI SPKRALLI GMNHEFEHHKENQTLAEWSSSEI I VEH
 FRI I PFACFKRKRKFHLLSSSSGVSSAAAAGRAI SLPGCPDKCGDVSI PYPFGVGDRCOA
 VGLNPYFI TCDDAVRPPVPKLGDPGMEAEVLDI TLERGEI RLTGFLSYVCYTSSNSSYA
 SLPGGI FVGGTQLRVSPSRNQLTVI GCRALGLLVGGAHAGGSGDGDEYATGCYTYCASLN
 STDADGAPCAGTGCCQAPI SSDLAYVGGTFPSNWTNSGWRFNPCFYALI AEVGWYSFRRR
 HLAGVLGFVNETKPSDI PVVLDWAARDGWCPATAEEKARRKYACVSGNSHCVNSSNGMGY
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 GGTAARRRPVSLGLRLKI AAQSAEALAYLHSSASRAI LHGDVKSLNI LLDGALDAKVADF
 GASALRSAMGEGESFI EYVQGTGLGYLDPESEFVSRHLTDKSDVYSFGVVLAEI TRKKAVY
 EDDGGGGGGSGEKRSLSSTFLAASSRGELWRVVDRI MDGDDVDVAVVRELARVAEECMGA
 RGEERPAMKEVAERLQVLRVEMMEAAAGVEVVDGFNGGGLVGRHGHLDTTTTTTTSYYQ
 SMETDKLQLDVLVLR*

>OsWAK27 9631.t04035, Chromosome 3, protein sequence
 MSLPGCPDKCGDVSI PYPFGI GDRCAAAGLSRFFNLTCGDSRSPVPMLGDPGAQADVI D
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 VVGTAAGGGGDDDLATGCFTYCAELNAAGADGAPCAGAGCCQVPI SPDI PYLGAAFRT
 GNWNTNARWFNPCFYAMFAEDGWYSFRRRLVGVLAYNETVDAGRGPVVI DWAVRDGW
 CPATAEERARRKYACVSGNSYCVNSSNGMGYTCNCSRGYEGNPYLAGGCQDI NECVLREQ
 DPKYEEMYPCHRI CI NTPGLSACAI LAMALSCLLVI QLQRRKHI QEQQYFKONGGLRL
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 VDGRGGGGCEDEFVNEI I VLSQI NHRHVRLLGCCLEVHVPMLVYEFVPNGTLFDLLQGG
 TAARRRPVSLGLRLKI AAQSAEALAYLHSSASRAI LHGDVKSLNI LLDGALDAKVADFGA
 SVLRSAMGEGESFI EYVQGTGLGYLDPESEFVSRHLTDKSDVYSFGVVLAEIATRRKAVYDD
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OsWAKs-Supplemental Data 2[1].txt

LAARCLGPSGDERPAMKEVAERLQVLRRAEMRAVAGAGRDSNGGEVDRSWI MCGGGGGA
VGRGHLDNTTASYQSTETDKMPLTLSVNDLAR*

>OsWAK28 AK120279, Chromosome 3, protein sequence
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VASGAPPPTAASLAPCPKTCGEVNI WYPYGI GPGCFRQGFELTCDDTSEPLKFLGNTMT
QVI SLYPSGTVLASI MYTI PMI HGVDYTNLSWDSPGRNLLNVVTYNYLAFLGCGI GVVLFH
PDTGNLVGHCTI KCASMEEMHMATEGGI CNGMGCCTVTFPVLFGRFRVTI VKSNETI POP
FNNI TI KAFLTFRPYI FSI ADLLSNKI NASTI GASMAYLSTVI ADEPNCPTARLDNKTOF
ACGSNNCI DVANGGYSCACPGNSDDGNPYLLDDCKQEFNPTPKKNCSRSCGSTNI PFPFG
LEPGCFAKRRLQSCASNRTLI GRPPAKYEVTNI SLDEGLLYVNKLSEFEDANTKYLSVY
YGGSGCFGQQLI YGLEKSDLSEYGVWKSVTNLTCEDAKSKSAYACVSTNSECLDVTHG
KLYI GYRCKCSLGFEGNPYVQNGCTDI DECSI PNYCNGTCYNFKGSYSCCPHGMSYDRVR
ROCTSNKRQNI VLGLAI GI SSGFGVLALT I AAI LFKRWKRSTRKKI RRAYFRKNKGLLL
EQLI SSSNNVTPNTRI FSLEDLEKATNNFDPTRI LGYGGHGTVYKGI LSDQRVVAI KRK
I VEQSEI DQFVNEVAI LSQI I HRNVVKLFGCCLESEVPLLVEFI SNGTLHGLLHGDLS
NCLLTWDDRMRI ALEAAGALAYLHSSAAMPI FHRDVKSTNI LLDGTFTTKVSDFGASRSI
SI DQTRVVTI VQGTFGYLDPEYFYTSQLTEKSDVYSFGVI LVELLTRKKPI FLNCLGEQK
NLCHCFLOSLRDKTTMDI LDSQVVEEASHREI DEMASVAEMCLKTKGAKRPMKEVEI RL
QLLRAARSRAYKEDLQRSSEI KPLLTPKYKCTSLNSTKNVEMGLVANPESQVVSRCYTME
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>OsWAK29 AK102639, Chromosome 4, protein sequence
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FVNKPSNLGDI I TTPTVANELHDFDFSGSQI WRWAVANOTCHTARTDQLSYACVSNNSL
CVHRSTGYHCKCSLGYGGNAYI EDGCEDI DECSLPNFCNGNCQNFLGSYRCSHCPRGSI F
DPAKRVC I YGHGLHPAGLLI GLSCGI GVLFLVGLI LFVRRWRRHMQRKI RREYFQKNKG
LLLEQLMSSDENVAHDPKI FSLEELEKATDNFHSRI LGCGHGTVYKGI LLDQRVVAI K
KSRI VEQNEI DQFI NEVAI LSQI VHRNVVKLFGCCLVSKVPLLVEFI SNGTLYDLLHGE
QSTTFSLTWEDSI RI SLEVASALSYLHSAASI PI FHRDVKSANI LLNDNYTSKVSDFGAS
RSI SI DETRVVTI VQGTFGYLDPEYFHTCOLTEKSDVYSFGVI LVEI LTRKKPI I VNCFG
ENONLGHCFLOTLQHTI MEI VDPQI AKEANESEI NEMASLAEI CLRI RGEERPMMKEVE
LRLQLLRAMI TERSRQELLRNNGI GPSVQNSSTTSVTRSVVLRAGI GI STDQDATRCYT
MEQELVSWTDLPR

>OSWAK30/31, AK058435, Chromosome 4, protein sequence
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YAYDAGCI TYCPSLSDAAADGAPCKDLGCCESPI TPGLTQFAVGWGRWPGASDDDYGELD
PEQYYQYAFVAQDWYTFKQDHLTHWDI DNI SVPFVLHWDI KDGPACRPETNYDSPFGACH
SNHSCANVTSGLDGYFCNCSEGYI GNPIY PDGCKDVNECENNSI CGAGSTCKNTEGSYR
CDCNFGQRRDNSSDNMGNCEPI FSRAAI AVI GEVQYMNAMLI EI CSMPYI PHI I YNALI T
CSSAFHVYTI FALHYI QLEAQH

>OsWAK32 AK067041, Chromosome 4, protein sequence
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LSCGFSI LLLSLGI MLLI HRWKDI QKQLRRKHFKQKQGLLLEQLI SSDENASENTKI FS
LDELEKATNNFDPTRI LGHGGHGMVYKGI LSDQRVVAI KRKH I EEEI SQFI NEVAI LS
QI NHRNI VKLFGCCLETEVPLLVDYFI PNGSLFGI LHSGSNNGFSLSWDDCLRI AVEAAG
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>OsWAK33 AK067467, Chromosome 4, protein sequence
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SI SHYNYSWNLSFSFI EYVI LNI TGCNFDYI I NPDTDI RTRI CRNSCPKEE I TEAVARQ
SCNGTGCCTYDI YGVANLQLSFVRGDEGLLGGNSSRNSLWNI I NI RSWYAYVTWSI I DQP
TCASAKDNRTDYACVSANSTCI DSFNSMEYLGYL CYCSSGI GNPIYVLHGCTRDEGYYPV
QQKANCSTRRCNI SVPFPFGLLEEGCAARKLFQLNCTNVTSSSTLQFDRGHVVTDI DFAEGV
VGI KLASFYCEEQFSMYRSGEPDLYASFGEAVI SVHWAAANLTCQEAQKNHSRYACVSAN
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OsWAKs-Supplemental Data 2[1].txt

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LI NVW

>OsWAK34 3230.t00010, Chromosome 4, protein sequence
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ASLNI TGCEFDTYI I NNKSYSPTTAI CKSSCPNKEI TETVARQSCNGTGCCTI YVGI DVA
NLHLRFVRHGREGLGVNSSRSSLWNRI NI VSSYASVMWGI NNRPTCASVKDONQTDYAC
ASANSQCVDISI SSTDLGYRCECNSGYI GNPYVLDGCTRDEVLNVSASGEVYELCSLKAG
YHPVQOKANCNRWCGNI SVPFPFGLGEECTARKLFELNCTNVTSSLTQFNRGHVVTDI DL
AEGVVGI KLI TSYYVEQVFRMYI SGEPYLYASFGEAVI SVHWAAANLTCQEAQKNHSRYA
CVSANSTCLGVNSTDGYVGYRCKCMDGFHGNPYDANGCEDVDECKKTPGI FKGI CHNNI G
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FI PNGSLFGTLHADASTFGYLDPEYYHTGQLNKKSDVYSFGVLI ELLLRKEPI FTSETG
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>OsWAK35a AK108495, Chromosome 4, protein sequence
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>OsWAK35b
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>OsWAK35c
MSI I FI VLSI VALEKFQSLSCENMMWENRRSI ANEYNGFSSI SRSWSCCFI SI WSLDRATG
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>OsWAK35d
MI FFKKKYLI WSMAFYHCSFI SLKKLFALNKL VFFFFTRTYPSPVRPPENSPRLFHVPS
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>OsWAK36 5112.t00008, Chromosome 4, protein sequence
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KMLFHKWKKASVSVFHRDVKSSNI LLDANYTTKVSDFGTSRLVSI DQTHI VTKVQGPFGY
LDPEYQTECLNEKSDVYSFGVVLLELLLMKEPI FTSENGLKLNLAGYFLEEKVRPLSE
I VTTKI YEEATEEEI NNVTLAEMCLSPRGEERTMKQVEMTLQSLRNVTTTAVHRANA
SDQLSQRCSLEHEFI ASAELPR*

>OsWAK37 AK111580, Chromosome 4, protein sequence
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>OsWAK38 9632.t02788, Chromosome 4, protein sequence
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RCSYGALVEEASFKESTI YATSSNFSNPFGEPPFVVDWVANNTCAEARKHLDSYACAS
SNSVCI DSSNGPGYFCKCSQGFEGNPYLGHDGCQDI NECEDSNKYPCYGKCI NKLGGFD
CFCPAGTRGDASVGPCRKEFPLAFGI AI GLGVGFI LLLVLTVAFLVRKRKNDI OKQLRK
KYFRKNQGLLLEQLI SSDECATDSTKI FTLEELKEATNNFDPARVLGSGGHGMVYKGI LS
DQRVVAI KKPNI I REEEI SQFI NEVAI LSQI NHRNI VKLFGCCLETEVPLLVDYFVPNGS
LNCI I HADPSMREFTLSWDQCLRI ATEAAGALYYLHSAASVSVLHRDVKSSNI LLDANYT
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OsWAKs-Supplemental Data 2[1].txt

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PGCYSLQEEFMLSGLPR*

>OsWAK39 9632.t02794, Chromosome 4, protein sequence
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YLGPGEQNDVGSNLT I GCAATCGI GDDLVS I NSAGCSGI GCCQTN I PKGI RYYKWFWDGR
FNTT DI YNWTRCAYAALVETSSFNSTVYNSLSRFNDNLGSQPPFVVDWAI GNSTCEQAK
TNSDSYMC I SSNSVCLNSRNGPGYI CNCQNGFEGNPYLNSFGCQGKTKGVHMRCKLI NH
RHI VKLFGCCLETEVPLLVYDFVPNGSLNQI I HGATSNRESSLSWDDCLRI ATEAAGALY
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YYHTGHLNEKSDVYSFGVVLLELLLRQPI FECESGTKKNLSI YFLYEI KGRPI TEI VAP
EVLEEATEDEI NTVASI AQACLRLRGEERPTMKQVEMSLQSVRNKGFSSAGTSPESNHGM
QPALSETYVNLHQPLGVHTI GI I NLASSNCNSLQOEFMLSASFASPYTLCAGPGLLAHRA
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>OsWAK40 9632.t02799, Chromosome 4, protein sequence
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FGL EEGCFARKLFHLNCTEANSSTLRFDKYNQVTDI KI EEGVLI KYDAGGGGDOEFMAI
DGEPLYDGSWDYSI SVGWAVANLTCL EAKQNASGYACVSTNSTCVPVNSTSGYVGYRCN
CTAGFHGNPYMLNGCI GKEH*

>OsWAK41 4577.t00022, Chromosome 4, protein sequence
MI RSPHAANSLQLLLVFLATTTLLTS AKDLAAPRRQEGHGRVVPSTATLAGCOSSCGDL
TFVYPFGI GSGCFRSPDFELTCDSTTSPRLLFHDGI TQI AGSI NI VSTEFMDTDNSVST
RFSHTI SMRNASVVSWSLSPKLL EHS LDAFYLT LWGLRFGCDFVYWLNRPSI NKATPN
CTATCPKGESTGMVSPM QHCNGTGCCTI DFGAEI NAYSSTI EFKFVROAETNLESYHNRS
LSWDTI YI TDPASRGLSWKI PDQPD CASARKNQTSYACVSNKSI CI DPDDVKQGYNCMCR
NGYI GNPIYI LDGCSPPNDAKRNSSGYACI STNSECI TSKPTDTFVGYRCKCAQGYQGNPY
I TNGCVGMVVGGGQTTGDRRI *

>OsWAK42 4577.t00017, Chromosome 4, protein sequence
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SPECGS AWVRRGESEGEYAGLGKNGETDEGSTGMLFMGSGRRDRGRTWRNRP AKWGADV
WWRGQMGLGSAI PRNHADI DECKEPKKYPCYGNCKNI PGHFDCTCPKGTRGNAFVEGA
COKI I LTSGVRI AI QVAGALVGLFGLGWGI KYKQRI KKOALLROADEFFQOHGGOLL
LEMMKVEGNAGFTLYERERI KI ATNNFNKAHI I GEGGQGT VYRAVI DGTTMAI KRCKEI N
ESKKMDFVQELVI LCRVNHTNI VRLLGCCLOFEAPMLVYEFVONKTLQELLDLQSKRFH
VTLGTRLRI AESADAFHLYSLPRPI LHGDVKPANI LLAEGLVAKVSDFGCSTI DEKTO
VVPKGTGPGYI DPDYLL EYQLTASN DVYSFGVI LLELLTSRRPFSKERKSLTSMFQEAMAN
GTLVELLDSDI VDEASMRVI QAAVL ANOCLVVPALADEVQOYPQPPLVLEDLSFTGI GR
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>OsWAK43 4577.t00014, Chromosome 4, protein sequence
MTSHRGLTTTTLCLAI AI AAELLAGRAEGQCQNTKCGDVEI PYPFSTSLDKCAASAFEFD
CNDTGNGVYKPFYGNVEVLSVSLQLGQVRVMNHI SSSCYNLSSKEMSDTWQLNMTGTPF
MLSDSNKFTVVGCTVAYI ADQDYVGKYM SGCVSVCRRGDVWKATNGTCSGI GCCQTAI P
KGLDYYQAFFDDSSMNTSGI YNRTPCS YAVLMDSSNFTSTTYLTTFEFNNTYDGRAPMV
LDWAI RSANSCEEAWKKMDSYACKSTNSECFNSTNGPGYTCNCSKGYEGNPYLEGPNGCR
DI DECODSKTHCYGECRNKPGGFD CNCPAGSKGNATI PDGCRKDFRLPLKARLAI GAVI
CVLVGLFSFLGWEVI RHKRSI KKOALLRQTHEFFLQHGQOLLLEMMKVEGNVGFYLYERG
EI ETATSNFNKEHI I GEGGQGT VYRAALNGVNVAI KKCKEI DESRKMEFVQELVI LCRVR
HPNI VKLLGCCLOFEAPMLVYEFVONKTLQELLDLHRSKRHFVTLGTRMRI AAESAELA
HLHSLPHPI I HGDVKPSNI LLAEGLI AKVSDFGCSTI DENTQAVPKGTGPGYI DPDYLL EY
QLTSKNDVYSFGVI LLELLTSKKPLSKDRKSLTLMFQEAMAEGTLFELLDSDMVDEASMR
VMHQA AVLASQCLVPGMTRPTMVLVAAELRRLALADEVQOCPQPPLVLEDLSFVEMGST
TSGVYSLEKKAVLSI EFAR*

>OsWAK44 9632.t02820, Chromosome 4, protein sequence
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CNNKKPFYRDVEVLSI SLQLGQI RVSTPI SSSCYNPF SkinnerMYSSGWGFNLSYTPFMLS
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VSFGESMNTSGI YEHTPCSYAAI MDYSNFTFSTSNLTSLLEFNNTYSGRAPVKFDWAI WG
PRDCVEAQKNLTSYACKSDHSVCLNYSSGAKSAYMCNCSKGYHGNPYLQGSNGCED NEC
EHPESYPCYGECHNKDGGFDCFCRDGVVACI LSI LFGFLGWEVI RHKRSI KROALLRQND
EFFQOHGGQLLLEMMKVEGNAGFTLYGRQEI ETATNNFNKANI I GEGGQGT VYRAVLGGI
AVAI KMCKEI DENRKMEFVQELVI LCRVNHPNI VKLLGCCLQFEAPMLVYEFVONKTLKE
LLDLQRSTRFHVTGLTRLRI AAESAGAF AHLHSLSHPI LHGDVKPANI LLAEGLVAKVSD
FGCSTI DESTPAVPKGT PGYI DPDYLL EYQLTAKNDVYSFGVI LLELLTGKKPFSKERKS
LTLMFQEA MVNGTLQDLLDSI VDEASMRVI HRVAVLASQCLVVP GTTRPSMALVVEELW
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>OsWAK45 9632. t02822, Chromosome 4, protein sequence
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DMDYNDWQI NFGTGLTI SDADNKFTVVGQTLAYI TDDDNMGKYTSGCVAMCQGGDLTS
LATNGSCSGI GCCQTAI PRGLKYRVRFDTG FNTSEI YNVSRCSYAVLMESKAFSRTSY
VSSLEFNSSNGGRVPLVVDWAI GNETCDKARRKVDYACVSHNSKCFNSSNGPGYI CNCS
EGYQGNPYLQDQGHGCTDI DECADPKYPCSVPGTCHNLPGGFEC LCPRSRPKGNFNGTC
ERDQTLHTGGKVAI GI SGFAI VGLVFLVREVI QHKRSI KROALQROTDMYFOHGGQI L
LELMKVESAEFTLYDREKI EVATNNFAKENI VGKGGQGT VYKAVLDGTTVAI KRCNEVD
ESRRADFVQELVI LCRVNHPNI VKLVGCCLQFEAPMLI YEFVONKTLQELLDLQSRKFH
VTLATRLRI AAESANAL AHLHSLRPPI LHGDVKPANI LLAEGLVAKVSDFGCSTI DEKTO
AVVKGTPGYLDPDYLL EYQLTAKNDVYSFGVI LLELLTGKKPLSKERTSLI PI FQGAMES
GKLVELLDSI VDEANMGVI CQAASLASQCLANPSSSRPTMRQVAEQLRRLALADEVQQC
POPPLVLDGLI LTEMGSTTSSWYTGSGTSGVYNLENNVVLSTEFAR*

>OsWAK46 AK072627, Chromosome 4, protein sequence
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FGLSSSGCAMSPSFEVDCNNTGNGVQK PFLGYVELLSI DVQLSQARVRTRI SSSCYN I ST
REMNFDDLWYVDLKDTPYRFSDSANKFTI I GCRTLAYI ADQDDVGKYM SGCVSVCCRREL
TSLI NGTCSGKGCCQTAI PKGLDYYQVWF EQSMNTSGI YNRTPCSYAVLMEASNFSFSTT
YLTSPFEFNNTYGG EAPVVDWAI NTANTCEEAMGNLTSYACKSDNAKCI NSSD TTGYI C
RCQEGYQGNPYLKGPNQCQDI NECQHG ENYPCYGD CYNKP GSFD CVCHAGSSGNAAI QGG
CRKDLLSPKTRLAI GVVASVLAVLFGFLGWEVI RHKQKI KROALLROTDEFFQOHGGQI L
LEMMKADGNDGFTLYKRGEI ETATNNFSKAHVI GEGGQGT VYKAVI DGVAVAI KKCKEI D
ESRKMEFVQELVI LCRVSHPN I VKLLGCCLQFEAPMLVYEFVONKTLQELLDLQSRRFH
VTGLTRLRI AAESADALSHLHPHI LHGDVKTANI LLANGLVAKVSDFGCSTI DKRTQ
AVPKGT PGYI DPDYLV EYQLTTRNDVYSFGVI LLELLTGRRPLSKERKSLTLMFQEARSN
GTLI ELLDSI VDETSMRVI KRAADLV SQCLVVP GTTRPSMTLVAAELRRLAEAYEVKRS
POPPLVLEDLRFMDMGSTTNTLYGESRTSGAYSLEKKAVLSI EFAR

>OsWAK47 9632. t02847, Chromosome 4, protein sequence
MPFHMLASLLWLCGGI AAYCSAASAATCVRSCGGVEI PYPFGLD PACALPGFNLT CNI KG
DGKPYKDV ELLNI SLTEGQVRMRMHI ANYCYNSTSGGMNGTGWSLNLTGTPFRLSDFGN
KFTAI GCRTLAYLLADDVLT TGC VATCKADDLLRLPDGVCSGI GCCQTAI PKGLQYYGVM
FDSGFNTTEI NNMSRCSYAALMEASSFNFSKNYPTSSSFNDHYRGRAPLLVDWAI GNETC
DVARYRCNCSQGFHGNPYLKPEDPDSCQDI DECKEPYKYPCHGKCRNKVGGI CASLVVAL
TTLLGI EWI KYKQRI KQDI MRKRGEYFHLHGGQLTDMN I ENNI SFKLYDRDDI ELAT
KGFDKTSI I GEGGQGT VFKGYNLDOVNNPVAI KKCKGFDENSRTFTQELLI LSRVNHEN
I VKLLGCCLQFEVPVLVYEFVPNKTLHYLI HSQNDPSI RTLEI RLKVA AESAEAFSYLHS
LDHPI LHGDVKSMNI LLSNNFI AKI SDFGCSKI RAADGHDDVVKGTI GYLDPEYLLKFEL
TDKSDVYSFGV LLELLTRRTPLSKOKVSLASVFOEAMKEGLFLELI DTEI LHEDNMGLI
GDLARLACQCLAMTSESRTMCR I AEELRRI EKRVRQHRGVLTTI SSMSLLASSSADTSL
HFTGETNGYNSLRSAAMS I EFAR*

>OsWAK48 9632. t02849, Chromosome 4, protein sequence
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CRTLAYI ADKDNV GKLM SGCVSACRRGDVTSATNGTCSGVGCCQTTI PKGLPYQVFFDQ
AFNTSDSI YNATLCSYAVLMDSSDFKFSTSYLTSPEFN TSYGGRAPMLLDWAI RTVNNCD
EAQKNLTLYACKSDKFNSSNGPGYI CNCTNGYQGNPYRODGCQVETGLDGRGSRNVK
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>OsWAK49 5443.t00017, Chromosome 4, protein sequence
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KKOALLRQTDEFFQOHGGQLLLEMMKVEGNVGFPLYERGQI ETATNNFNKAHI VEGGGQG
TVYRAEI DGTI VAI KRCKEI DESRKMDFVQELVI LCRVNHPNI VKLLGCCLQFEAPMLVY
EFVQNRTLHELLEDFQRNRSCHVTLGTRLRI AAESADALAHLSLPHPI LHGDVKPANI LL
TEELVAKVSDFGCSTI DEKTQVAPKGTGPGYLDPDYLLLEYQLTAKNDLYSFGVI LVELLTG
KRPLSKERKTLTSMFKEAMTDGTI KLLDSI VNEDNLRVI HQAAVLASQCLI I PGTARP
EMRYVAEQLOQLAFADVEQQDPQPPLVLAGLRFTAEMANTRTTSSWQTDSKTTGVYSLEK
NVRLCSRI T*

>OsWAK50 AK111730, Chromosome 4, protein sequence
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RQTGPMI LLGGNYSVLSI SLLEGYVRVTGQTVYSSQCHNNSQGI I DLTATNYMFSHTQNK
FTAVGCDAMAMI RNSSDVVGNTNSTVMSRYSGGCVSFCASNGSI I SGECSGVSCCOSSVP
KGLNKLDFEFTSI RDQLMPPTSAVSGSGSTRCSKAFI AEQDSYVFSRHDLYKDLGNLPMVL
DWYI QGGNCKEASRSRQTYMCKENSICYEVEDGAGYRCNCSSGGYTGNPYI GCVDI DECND
GNNYPCTHKCI NI AGGYNCTCPMGMTGDGKKQGI GCKRDTTMLSTVGGSLGLMAVLI VLG
FWTYWI VKKRRLAKQKQRYFLONGLLLQQQI FTHOAPARI FTTSELEDATNNFSDDRI V
GRGGYGTVYKGI LSDQTI VAI KSKLVDSQSQMEQFI NELI VLSQI DHKNVVKI LGCCLET
EVPLLVEYFI SNGALFHQLHNTNLVPI SWEHRLRI ATETASALANLHLARKVPI I HRDVE
SANI LI DENYTAKVSDFGASRLVPSNQTHVTTLVQGTGLGYLDPEYFYTSQSLTDKSDVYSF
GVVLVELLTRQKPI SYHROEEGI NLASHFTALAAQNRLQEI VDCVVVKEAGMRHVNVVSH
LI LKCLKLKGEERPRMVEVAI ELEALRRLMKQHLSLKSEKALRELMEQSAEDCOEMQLL
QEESGOEKMSNI EPLKLYHRDSASDKCMESSPLLSMDLPW

>OsWAK51 9632.t04098, Chromosome 4, protein sequence
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FRFNAKNTPFRFSDVYNKFTVI GCNTLAYI ADDGGTGYQSGCFSOCRDL SGLVDGSCSGM
GCCOTTI PRGMYYNVTFDKRFNTSQI SRFGRCYAVLMEASFNFSTTYI NTTKFNGTN
GGRVPMVI DWAI REKSCDI AKQNMTSYACLSNSECVA STNGPGYVCNC SHGYEGNPYLP
DPHGCHGVI I GFI VLMI I AFCGQLVI QRRKLTKI KKEYFROHGGMI LFESMKS KKG LAFT
VFTEAELI HATNNFDKSRI I GQGGHGTVYKGTVKDNMLVAI KRCALVDEROKKEFGQEML
I LSPI NHKNI I KLLGCCLEVEVPMLVYEFVPNGTLFELI HGKNOGLQI SFSTLLRI AHEA
AEGHLFLHSYAPPI LHGDVKTANI LLDENYMAKVTDGASI LAPSDKEQFVTMVQGTG
YLDPEYMQTCQLTDKSDVYSFGVI LLEI LTGOVPLKLEGPAL ORSLSSVFLSAMKGNNLD
SVLVSDI KGOESMELI GGLAELAKQCLDMCGANRPSMKEI TDELGRLRKL SLHPWVQVDA
EMAPENLLGGPSTI NSGLEI ETSSTGYLGEERENLPMNPGSTYYAR

>OsWAK52 AK111909, Chromosome 4, protein sequence
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RVVQRHAVGVAAGRPGAQSVRVYSAVGCAASVSRTMMV

>OsWAK53a AK111508, Chromosome 4, protein sequence
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ASSGPMVRI NNI MFGI LNI SLLDGFVSI LASATSQCKRNSFSLEGNTFTFSDTRNKFT
ALGCDMVAMLLNGSSGYSGGCASFCTKSNI I DGMCSGVACCOAPVPKGLKLELEFTNI
TGQLSRPKEVNNTPTCGEAFI VEQNSYVFSSVDLSNTNRNPNQYRPVVLEWSI DGGYCEE
ANRFMSYACKENSICYNSSNGI GYRCNCSLGFGQNPYLOGPDGCQDI DECTI KRPCTHKC
I NTKGSFYCMCPAGMRGDGLKEGSGCNGI GTLLI GI VTGLALLLLLVL FWTHWLKKR
KLAKI RQRYFMONGGMLLKQKMFSGAPLRI FTSSELEKATNSFSDDNI I GRGGFGI VYK
GI LSNQMVAI KKAQRVDQNMEOFI NELVI LSQVNHKNVVQLLGCCLETLP LLVYEF
TNGALFSLQNTSVLI SWEDRLRI AVETASALAYLHLATKEPI I HRDVKSSNI LLDENFT
AKVSDFGASRPI PHNQTHVTTLVQGTGLGYMDPEYFQTSQSLTEKSDVYSFGVLI ELLTRQ
KPI SDGRTDDVRNLACHFSMLFYQNQLLEI VDSQVAEEAGTKHVKTVAQLALRCLRSRGE
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>OsWAK53b, AK111662, Chromosome 4, protein sequence
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OsWAKs-Supplemental Data 2[1].txt

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VRNLACHFSMLFYONLLEI VDSQVAEEAGTKHVKTVAQLALRCLRSRGEERPRMI EVAI
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>OsWAK54 5380.t00019, Chromosome 4, protein sequence
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>OsWAK55 5380.t00020, Chromosome 4, protein sequence
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LTPYGN I ADGSSCAATCI DGWQNFAGPSCSGI ARCRTSVGRGVHSYTI QVTSLI DRNSMG
ASTSTTWAFAAEQGWFSANENAMLYNFTNWLPFTVESVPVLEWWLDLI RDGAI LPLS
VGPNTTDFRCLSLHSSSYNDLNYDRRCNCSSQGYEGNPYI RDGCRDI DECOOPDVYPCH
GTCTI NMPGTYRCLAKKSVKSLPGLI TI I AVSAGFGLLSLLGVAKI TNKI KQRRAKKLRR
KFFKKNHGLLLQOLI SSNKDI AERMKI FSLEELDOATNKFDQNR I LGGGGHGTVYKGI LS
DQRVVAI KSKI VVQREI DDFI NEVVI LSQTNHRNVVKLYGCCLETEVPLLVEFI SNGT
LSFHLHGQENENPLKWKDRLRI ALETARAI AYLHSAASI SVLHRDI KSTNI LLTDTMTAKV
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FSSETSERSTSLASYFVSFI RDNRLSDI LDSOI VNEVGAEDAKVAKLAEAELRLKGEERP
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>OsWAK56 2968.t00014, Chromosome 5, protein sequence
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DYI RYVWSPANGFTI VNESTLFVI GCGI EACLFDLDTNETMGSCI TMCSDNLGI MEMHDG
DCTGI GCCHI I VRRELRRFWLKLDPDDRTTPRSYRVLSRAQVFI LPTI NSYQFNTNDLV
SSSWMNTSSI GGTLLRGAI MDQETCPGASASKATYACTTNTNCFNATNGGYYCSCRNDVT
DGNPYVNLGCSDDPGI TI GI GCGLGSI I LALGAI VLI NKWKRGVQKRI RRAHFKKNOGLL
LEQLI LDEKAQDKTKI FSLEELEKATNYFDATRVLGSGGHGTVYKGI LSNQCI VAI KMSK
I AEQTEI DQFI NEVAI LSQI I HRNVVKLFGCCLEAEVPLLVEFI SNGTLYDI LHSVSV
KCLLSWDDRI RI AVEAAGALAYLHSAAI PI YHRDVKSSNI LLDNFTTKVSDFGASRTM
SLDQTHVMTNVQGTFGYLDPEYYTQGLTAKSDVYSFGVI LVELLVRKKS I FI NDQGTKQ
SLAHYFVEGHQGVVMEI LDSQVMEANREEI DEI VSI AESCLKTKGEERPTMKEVEMRL
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SI NLPR*

>OsWAK57 4374.t00003, Chromosome 5, protein sequence
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TVYRAEI DGTI VAI KRCKEI DESRKMDFVQELVI LCRVNHPI VKLLGCCLOFEAPMLVY
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TEELVAKVSDFGCSTI DEKTQVAPKGTGPGYLDPDYLLLEYQLTAKNDLYSFGVI LVELLTG
KRPLSKERKTLTSMFKEAMTDGTI LLLDSDI VNEDNLRVI HQAAVLASQCLI I PGTARP
EMRYVAEQQLQALAFADVEQODPQPPLVLAGLRFTAEMANTRTTSSWQTDSTKTGVYSLEK
NVRLCSRI T*

>OsWAK58 4374.t00004, Chromosome 5, protein sequence
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PFLPPVTESVGYLELESI SLLDATRSTSPAEAYRLSDTENKFI I VGCYTVAYI TVGDRED
MRYASACSAFCGPKGNLTSMDGACSGTGCEATI TEGHTSYNTMFDPDYNTTOI YNVS
SCSYAVLMESSRFSFRSYVMNSSQFI DTNGGRVPMVVDWAVQNASNCVEAQKDHDSYAC
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>OsWAK59 4374.t00007, Chromosome 5, protein sequence

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I KYKORI KRHDLMRKRGEYFNLHGGQLLTDMMNI ENNI SFKLYDRDEI ELATKGFDKMSI
I GEGGQGT VFKGYNLDOVNNPVAI KMCKGFDENSRTFTQELLI LSRVNHENI VKLI GCC
LQFEVPLVYEFVFNKTLHYLI HSONDPSI RTLEI RLKVAESAFAFSYLHSLDHPI LHG
DVKSMNI LLSNNFI AKI SDFGCSKI RAADGHDDVVKGTI GYLDPEYLLKFELTDKSDVYS
FGVI LLELLTRRTPLSKQKVSLSASFQAMKEGLFLELI DTEI LHEDNMGLI GDLARLAC
QCLAMTSESRTMSRI AEELRRI EKQVRQHRGVLTISI SLSLSASSSADTSEHFTGETNG
YDSLRRVAAMSI EFAR*

>OsWAK60 4374.t00015, Chromosome 5, protein sequence
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CCQTN I STGLSYYEVMFDYTLNTSGI YNRTPCSYAVLMESSSTFTSTTYLTSRAFNTSYG
GOAPLVLDWAI RTANNCVEAQKNPASYACKGDYSVCLNSTNGPGYI CNCKKGQGNPYLQ
DSNGCQGSFLHCQI MSLSARSREKQVKLRMSLCVPEGRAQHSWLRAGTKPRRLSSALG
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KDI NECQDSNNYPCHGECHNKPGDFDCFCRAGSRGNATI PGGCRKDFLPLKAQLAI GI AA
CVLAGLFAFLGWEVI RHKRSI RKOALLROTDEFFQOHGGQLLEMMKAEGNI GFTLYKRV
EI ETATKNFNKAQI I GEGGQGT VYKAVLDGTVAI KKCKEI DESRKMDFMQELVI LCRVN
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HLHSLPHPI LHGDVKPANI LLAEGLVAKVSDFGCSTI DEKTSMLKGTGPGYI DPEYLLEY
QLTAKNDVYSFGVI LLELLTSKRPLSKESKTLASMFQAMMDGTFHELLESEI I DEASMG
VLHQI AVLAI QCLALPGMSRPVMEQVAKELRRLALSDEVQOCPQPPLVLEGLNFAVMGSM
CTTSLLYTEGNSTGVYDLEKKTVMSTEFAR*

>OsWAK61 3015.t00018 Chromosome 6, protein sequence
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I PSGTVAWKYNNEFDPI AWTSRGGLRLGNHHMVSSAKNRFTAI GCSTVAFI YGRDKNGSN
GQFDQFTSLCGSFCFDEGSI EDGPECSGMGCCQVPI STNLRRFSLGFYNYNTTKKVLNFS
SRSYAFVVEKDQFKFSSYAKADNFMEELARGI PI I LOWI AGNETCKEAALKESYACVAN
NSKCI DVI EAPGYRCNCTOGYEGNPYLKDGCRRVNI ADI NECNATRFNPNSCKGI CTNTDG
SYDCI CI SI I FLI I CI STLLI KI QRMKLEKEKQRFYDQNGGHI LYQKI I SGQVNTVEI FT
EEVLKNATNNFDSGQKLGAGGHI VYKGI LRDNNVVAVKRSNFLHVTDAEEFVQEI I MLS
QI NHRNVVRLI GCCLEVEVPI LVYEFI SNGTLSYLI HGDSRRYASLKLRLRI AQESAEAL
AYLHLSTNRPI I HGDVESLNI MLDDSYTVKVTDFGASRWLSNEAVEQI AMVQGTGRGYLDP
EYLOERKLTAKSDVYSFGVVLLELI TGKKA I YRHGDGDFESLAGSFLRAMEERVENI LD
TSLAGASMEALPLLQEVAKVGMCLSAKGERPSMAEVTDMKLAVRI AWRDLLVSSEYNV
TEVFDVSSEAPPSGNPSSAVFWTPDMQSLEVETLR*

>OsWAK62 3009.t00005, Chromosome 6, protein sequence
MAFNLEGPENERSLSLSFLCAMEEGRLMDI I GHHI QDENAGVLEEVEANLASRCLEMI GN
NRPSMRDVADKFGRLRKVMQHPWAQHDPEEMVQHSK*

>OsWAK63 3009.t00012, Chromosome 6, protein sequence
MDCYYKL PVEKLAMRLLLI FLVI SLOFMADGASLPDDRCLKKCGDVI LYPFGI GEGCA
I EGFVLSCSKTEDGRGDVALYGTTPVLNI SLRYGQVRMKSTYI SSMCYNLSTKNMDYKNW
LLNLTTSPFTI SQKENI FI VI GANTAANMFGYSRYSTMLNMI GCLSQCSYPNSFTAQDGS
CVGI GCCQAVLSNNI SYHEVOFNPLYNTTTSYNNRSI TDRASYCGYAVVMEAAAFRFTA
YLNSTAFWDEHNGSVPVVLNWWVGNETQVAKQMGDRYACRSKNSMCI DSSSGPTGYLCN
CTEGYRGNPYLPDGCQDI NECDVNNPPPCPRCKNI PGSFTCSSPSQSRTVI LAVLSVG
I VAMAMI VTCSYLVREKRLANI KKKYFQOHGGMLLLOEI GLKQGSTAFTI FTEAELI E
ATNKFEDKNVLGRGGHGTVYRGMLKDSRLI AI KRCMSMI DDRQKKEFGKEMLI LSQI NHK
NI VKLLGCCLEVEVPMLVYEFI PNGTLFHI HGGNDCRNI PFSTRVRI AHESAQALDYH
SSAPPI I HGDVKTNI LLDENYTAI SDFGASI LVPTDEAQFVTLVQGTGCGYLDPEYMO
TCQLTDKSDVYSFGVVLLELLTGKMAFNLEGPENEKSLSLSFLCAMKEGRLMDI I DHHI Q
TDENAGVLEEVEADLASQCLEMI GDNRPMSMRDVADKLGRLRKVMQHPWAQHDPEEMESLLG
ESSVAGLEMVSTGNFSMEGGAVQGI LESGR*

>OsWAK64 9634.t04636, Chromosome 6, protein sequence
MAMPLFLGLAVLTLLLATAAAAALPPPGCPRTCGGVAVEYPFGI GPNCSLSDGFSLDCVRD
TPQLRLGPVKQQQTVRVLGVDLLHGKI RTTNAI ASQCLDARTGKLVNTSWEGLNAAALPY

OsWAKs-Supplemental Data 2[1].txt

RFSDDEDNRFFAVGCSGVVLLQGTAAAGADDRVVI GCI STCFGNASI RTGSCSNI GCCETAI
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FVVGSETCKEAQTSPTYACLSHVSVCVDGAPGYVCNCSSQYTGPNPYLPNGCVDI DECGPG
KHGCPDGM CTNPPGGYNCSCPEGEYKSNKNGVLI CESDQKRSSLVSVI I VI GVSGGVV
I AVI AI LI TYLMRQRALADVKKYFERHGGLLLYDELSTRPGNTFTI YMEEQLEQATNG
FDDGNI LGRGGHATVYMG I VPAGGDGLVVAI KRCKVMDETNKKEFGKEMLI LSQVNHKNI
VKLLGCCLEVDVPMLVYEFVPPNGTLYHLI HGGGGGGGGDGGVI SFATRLRI AHESAESLAY
LHSFASPPI LHGDVKSSNI LDESFMKVSDFGASI LAPTDEAQMVTMVQGTGCGYLDPEY
MRTCOLTEKSDVYSFGVVLLELLTGKKPLCLDGPPEERSLSARFVAAMGERKVGEMLDEQ
VKREASGESLEEI TRLALECLQMCADRPAMKEVAERLGGLRKLHQHPWTQDAVELEEER
CLLHGSPEYQLSARYTTGSR*

>OsWAK65 9634.t04645, Chromosome 6, protein sequence
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SLECVHDTPLRLGTDROQVVAVLDI NLLHGKI RI ANSI SWOCKDENDPTGAPLKNSSW
MGLDVTLPYRFSYEDNQFVTGCVNLVLLSGEEASVDPI LNVCMSTCFGNGSNI RNYC
SGAGCCEMAI PVGLKSYRLEFSGPLLFNNSWSPDNYTWCASHVLMKSFSEFERDYATTD
KFFRNKNGTVPVVLNFAAGSEKCKEARMKDTYACVSDHSACVGTADGYVCNCTSGYKGNP
YLPGGCTDI DVCAPGNDGCPDGM I CSNFPGGHNCSCPEGEHKSNSKGVLI CEPDLKRSLP
DLKFKRSYRLPVSAI I AI GVTGGI AI I VMSFLSSYLHQRALADI KRSYFKRHGGLLLY
EELNARKSNAFTI YTEQLEQATNGFDESNVLGRGGHGTVYKGVVAAAASDDLVAI KRCK
LMDERNKKEFGKEMLI LSQVNHKNI VKLLGCCLEVDVPMLVYEFVPPNGTLYQLI HGGSGAG
AI SFASRLRI AHESAESLAYLHSFASPPI LHGDVKSSNI LDESI MAKVSDFGASI LAPT
DEAQMVTMVQGTGCGYLDPEYMQTCLTEKSDVYSFGVVLLELLTGKKPLCLDGPDEGRSL
SARFLAAMRENADLI LDEQVKSEASGELLEI TLLALECLQMCADRPAMKEVAERLGGL
RKLHQHPWTQDVVLEDEVRCLLSDSPESI SFEVDATSSSGY*

>OsWAK66 9635.t00670, Chromosome 7, protein sequence
MYDDRKDFNRI DGEFEVVPVLDGTI RNVYNYACRSSRRTPATARGTGAI APRATRATPY
LDDGCTDI NECLHPKEYGCGYGNMNTPGGYTCVCPGTSGNPTEMNGCHSKDKFTFVVK
RKLI RTKQKFFEQNVGVI LQQQMHSGGGARGFRI FSMEELKKATNI FAAGHVLGRGGHGV
VYKGVLEDKTI VAI KSKMMKEAQTKEFARETSVAALKLKCPCWSTNSSQI TPSTTTSM
GRTPKADI PLDI RLQI AAESAELSYMHSASPTLHGDVKMANI LLDDKLSAKVSDFGA
SKLPPTDEI EI ATWVQGTCEYLDPEYLMTRQLTDKSDVYSFGVI VLELLTRKKVLYLDGP
EEDRSLVSCFTTAVKVGHRH*

>OsWAK67 3459.t00011, Chromosome 7, protein sequence
MWMVLRVAVSGALLLLVVVGSSAAGAGSGSCQTRCGDVI LYPFGI GPNC SRGVGFEI
ECNTRNGSGDLVPTLAATSLSI VQNLVESPPMAKVMLPVAYKCYNDPTKTQDFNGEVEL
NKTGVYRI SDELNMLVVLVCNTMVYTKNGNSEGGLYPYLYYTGCI AYCNDRSRQAQDGKCA
GAGCCHVDI PGGLTDNTLVFDSWNRTK*

>OsWAK68 3459.t00009, Chromosome 7, protein sequence
MKKMNEYFKKNGGSI LQKVDNVKI FSKDELKKI TKNNSEVLGOGGFGKVYKGTLDNTI V
AVKTSI EVNEARKDDFTNEVDVPMLVYEFAANGNLQDI LHGDGNI PLPLHLRLDI AI ESA
EGLRYMHSSTNRTI RHGDVKPANI LLTDKFI PKI SDI GTSKLLTVDKDFTMFVVGSMGYI
DPVFHKTGHLTQKSDVYSFGVVLLELI SRKPTI YGENCSLI I EFQSYDKENSGRMMFDK
DI EI EEDI LI LEEI GRLAMECLKEKVEERPDMKEVAERLVMLRRSRKGGQGSYSI SPQNF
EEI SI EGTPKSFGAEI SESSNAAVSAPATPAN*

>OsWAK69 2123.t00006, Chromosome 7, protein sequence
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PSKGHGAWLMAAI KKTQWRLRASARRROLI PFDVKPCMC I HEVGPOGGADGAVACSRMD
EEDPI DAAEAAAALQSVLQHDDGTAVFLLQWI KRDGVKRFVRODELSMERKRDKDDRGL
VVNMI I VFI SSGDGI ETKEAAHACSLDVVSSRVESEMGRRSWEKTI AAATAATQYAGEAM
AQYNNI FCATHMGDWYKLSQFRDTANEVLAKADI DPNVRCFTRQMKHI TNNYGTVLG
KGGFSVYKKGKLDNGRSVAVKQYNWRTQKEFTKEAI I QSQCASHRNI VRLLGCCVEADAP
MLVTEFVPNGNLSELLHGKSGQLPVSLERFQI ALDVAEALVYMHCSQNHPI LHGDI KPS
NI LLGDKHVAKLCDFGI SRLLCMDNDEHTGFVI GSKGYMDPVYCETGRLSPKCDVYSFGV
VLLELI TRKKGI DDQSRNLAMFARSSRDKRHELFDEI AADENI DFI EEI ANLALDCLK
SEI EDRPQMKEVLKQLWSI KRSEI LRQERRLAELRERRI MTLREI KVMLRGSGFERFVTK
AT*

OsWAKs-Supplemental Data 2[1].txt

>OsWAK70 2123.t00010, Chromosome 7, protein sequence
 MTSSEKHKYNHI FCVTDMDGDWYDKLSQSFRDTAKEVLAKTDI DPNVRCFPKQMKRI TNN
 YSTTLGRGGFSVYKGRLLDDGRSVAVKQYNWRTQKEFTKEGVAKLCDFGI SRLLSMDSD
 YTGFEVI GSKGYVDPVFCQTGRLSQKCDVVSFWVVLLELFTTRKKGI DDMKVCLAEI FACSS
 RKGDEHKLFDMDI VTNENMEFLQGI GRVALECI KFEVEERPEMRLVLEQLLSLKRSRDKS
 I HEMLVVRKEI EVFLRGCGFGRFI LSKEVDLDI CNLKI VLKECASGKAYI GKSRGTPLM
 AI KMSTAVTEKWKDMLGNEI AVQSRI KHMNVAKLI GYCLDHSDDGTGLI YEYGA SLYDVL
 FGDAGKI YRPFTCDLRLKI AI GAAEGI AHLHPLGVVPGDVRI NELLVDHVSSSLEKI AGF
 GTLGLPDI ERVLDL*

>OsWAK71 2123.t00013, Chromosome 7, protein sequence
 MGDWYDKLSQSFRDTAKEVLAKADI DPNVRCFTRQMKRI TNNYSTTLGRGGFSVYKGM
 LDDGHSVAVKQYNWRTQKKEFTKEVI I QSQCASHNI VRLLGCCVEADAPMLVTEFVPNGN
 LSELLHGNL GOLPVSLERFQI ALDVAEAVVYMHYSONHPI LHGDI KPSNI LLGDKYVAK
 LCDFGI SRLLCMDNDEYTGFI GSMGYMDPVYRNPKQVSTSEAFSGKSSVLI QRAI GKI C
 MGHLLKNI RFI VI KMSVEADEI WKEMFLYEMI KQSRI EHCNVAKLFGCCLDHVDAPVLVYK
 YGDI GLHDALFGNAWQFDCPFACEI RLEI AVGAAEGLAHLHSLNVVHGVDVRTANVVDV
 YSKSKLEMPGI TAFMAKI AGYGTQRLSLDKAKHEI FLTENI HYKDPHFLKTGLMAKEYD
 VYGFVGVVLVELFAQNMVQMHVDVNMVLKELDGI PARCHHLKEI KKLASWCLASKVTERPAM
 DKVVRCLRAVLTLNLQNLHDPNCCKSMYKNSAMQSEI TSAKSASS*

>OsWAK72 AK069794, Chromosome 7, protein sequence
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 LNDGRAVAVKYNWTKQKKEFTKEVI I QSQFSHKNI VRLLGCCVEADAPMLVTEFVPNGN
 LSNLLHSNSSQFPVSLGTRLQI ALDVAEALVYMHSSQNHPI LHGDVKPSNI LLGDKDVAK
 LCDFGI SRLLCMDNDEYTGFI GSRGYVDPVFCQTGRLSKSDVVSFGVVLLELI TKKKG
 I DDKKVCLAETFARI SRKGNHGLFDMDVVTNENMEFLQGI GRVALECI KFEVEERPEMK
 EVLERLWSLKRSRDRRI REMQVMVRSEI EVLWRRCGFGRFMI SKERMDDMTYYFKTVLKE
 CASGKAYI GRFCNAQLLVI KMSI SVLDQWKNV VNNELNVQSRI KHWNDKLLGYCLDLWE
 GLVLVYVEYGAMSLYDVLFDHARKVSPFI CGLRLKI AVGAAEGLAHLHSLGI VHGNVSTVN
 I LLDLVLVVKVI SRNYPVKI AGYGTSGLPDI DKAQHTGFFMEDSLVTSHGKEHDVYCFGL
 VLLTLFTWKKVSLQEAETVFEQLWDI GPPHDVNSEPEKPGQOLKEAI LRCRHLEEVKSLV
 SRCLTSEVTKRPSMVEVAKHLKNI NDLHDSTACHELAI YQSRMLSG

>OsWAK73 gi |42407754|dbj |BAD08900.1| putative wall-associated serine/threonine
 kinase [Oryza sativa (japonica cultivar-group)]
 MAIHPACTSRPMKI HDFCKRTLADFDRQTAI LPPSHLACGI VVQQLQAGAAAAAAGGI SI EYPCFVEP
 GCYHPGFNLTCNHSYSPRFLGDDGTQVLEI AI PQATVRI NSGRMVFNSTGNHAVNRSLLDQVGRPYFV
 AASNRI ALLSCNARVDVRAAGRNNTSTKLLSCTAI CPTDDGGGATTI LDI GPEGPCSGI GCCETSML
 LAGSSTAAYSI QVQNLQEQAVVLNRTDDLVLVDERFNYTLDMSTFGYSSPEELPARLDWYI NSSSACPLP
 ASAPECRSAHSYCDSTYDNKAYI CRCSEGYEGNPYPVDPGCHDTDECSSGYCSYGECRNTPGSFI CNCPRG
 YEGNPSPKDGCKDI DECARHDI YPCYGKCI NLPGDYI CLCNNGTYGDAKKKEGCI PMKQARDLGLRI GLG
 VGGGTI LLLLALSAPFI SSKMKLRKMKRMKETFFRONHGLLLGRLVSNADI GQRMV MTLQELEKATDNF
 DKSREI GGGHGHVYKGI LDLOQVAI KKSRI VVKREI DDFI NEVAI LSQVNHNRNVKLLGCCLETEVPLL
 VYEFI SNGSLDHHLHVDGPI SLPWDDRI RI ALEVARALTYLHSATTI PI FHRDI KACNI LLDENLI SKVS
 DFGASRYI PI EQTEVTTAVQGTI GHLDPMYYTGHLDTKSDVVSFGVLLI ELLTRKRPYMRTHGESLVL
 YFASLHRQGVVEI I DPOVMTEGDGDI QEVASLAATCTKLNGQDRPTMRDVENTLENLRVKKKLASHSV
 KSSRCNAEI TKHYMLVTGQSGKEMSROYSMEEEMLLSERYPR

>OsWAK74 9636.t03854, Chromosome 8, protein sequence
 MRVVFSLVLAALLQLLLGVATAAAANCSTHCGNI GI SYPFGVEPGCYHEGFNLTCDRS
 HKPPKFLFGDGSVEVLEI SI PSGTVRI NSSSI VPVSTSSAVGTGSVNKTGKYHTWGLLRK
 GGPFFI SPYKNKFLVLSCSNVQVLLGGDNSTVNACATYCPPAPKKGPQFQPMRNECSG
 I GCCSAAI PKGYTSYSI QI QPANEI SEFDAESSVYI AEESYNATRLI FETVSALPALLD
 WAI SNSTCGTKPSAAPACRSSNSYQNYTSYVYNGYQCRNAGYQGNPYI PNGCQGLS
 I GLVSGGTVLLLLALCAPLATRKI KLRKMKKTKERFFKQNHGLLLQLI SOKVDI GERM
 I I TLSDLEKATNNFDKSREVGGGHGI VYKGI LDLHVVAI KSKSI VVQREI DQFI NEVAV
 LSQI NHRNVVLLGCCLETEVPLLVEFVSNGTLYDHLHVEGPMSPVWDDRLRI ALEVAR
 AVAYLHSASSMPI FHRDI KSSNI LLDDSLTAKVSDFGASRYI PI DOTGVTTAVQGTFGYL
 DPMYYTGRLLTDRSDVVSFGVLLVELLTRKKPFVHTSSNGDALVLHVFSLHTENNLVDI L
 DPOVMEEGDGEVQEAALATCI KLKGGDRPTMRREVMALANI RVKKKHATLGTTSNRCD
 GDQI VCDYLSTRGI TDESTROYTMEEEI LSSGTYP*

OsWAKs-Supplemental Data 2[1].txt

>OsWAK75 9636.t03855, Chromosome 8, protein sequence
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 DPAYDPPKLFMNGPGYEVHKEI KLARRVLHLDGTI TQMLGGDSYNQKWI LDLDKLFVSA
 DMNVFI TLGCGFHFFI GSSPAAAGDNATSSSNVSNCRPGYPI LATDGTCTYGI GCCNASV
 VEDHNSYTI KLLSLQSSPRAVPFNASMVVVKGEWRRADNAMLLOQEVLSRLGAI AGAPD
 AARNVGVRTVVNWMLGNSSCVEAKKLSDFGCLSDNNI NECMLPNPPLCFGKCI NTVGSYE
 CI CPGGTSGNAHI QNGCVSSKLFSGLI I GI GLGGS LI I VVLI LTGI VVRRKFKSRRRAK
 LKEFFFKQNRGLLLHQLVDKDI AERMI FSLEELEKATNNFDESRLGGGGHGT VYKGI LS
 DQRVVAI KKSRYAI KREI DGTI NEVAI LSQVNHNRNVVKLFGCCLETEVPLLVEYFI PNGT
 LHEYLHVNSAQSPWKERLRI ALEI ARSLAYLHSAASVSI I HRDI KTTNI LLDDRFI AKV
 SDFGASRG I PI DQNI VTTTI QGTFGYLDPEYYRKSRLTEKSDVYSFGVI LAELI TRRRPT
 SYI SPEGFNLTEQFI LLVSEDRLLEI VDSQI TKEQGEEEAREVAEI AVMCNLNKGEDRPT
 MRQVEVKLEGLQGA VNTI RGRRAVQLNSPLTEESDSNI VAVGDAGYHNSSRRLSMEEEFW
 SSMSFPR*

>OsWAK76 AK067363, Chromosome 8, protein sequence
 MRDKFFMONHGLLLQQLI SRNTDFAERMI I TLQELEI ATNNFDKSREVGTGGHGVVYKGI
 I DLHVVAI KKSRI VVQREI DEF I NEVAI LSQVNHNRNVVKLLGCCLETEVPLLVEYFI SNG
 TLYHHLHVEGSI SLPWDDRLRI ALEVARALSYLHSSASMPI FYRDI KSSNI LLDDNLTAK
 VSDFRASRYI SI NETGI TTAVQGTI GYLDPMYYTGRLT SKSDVFSFGVLLMELLTRKKP
 I GGTFDNGDGLVSHVI SLLSKGNLYNI I DSQVKEEEDGEVLEVATLATTCTKFKGEERPT
 MREVEMALESI VSKKSSFCNKNSQSSSRSDENRI LALYMSI EGVTKDKTI TI TESSTEGE
 I PLSSRFSR

>OsWAK77 3081.t00013, Chromosome 8, protein sequence
 MEKRRMLRAKQRF FEQNGGLLLQQQLGSLAASGVAFKI FSEEEVSKATDGF AEARVLGRG
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 MLVYEVYPNGSLHRYI HGGGAGAGEGLSPADRLVAAESADALAYMHSSASPP I LHGDVK
 SANI LLDAGLTAKVSDFGASRLAPAADEAEVATLVQGTCTGYLDPEYLLTCLTSKSDVYS
 FAVVLELLTGRKAFCPPPPSAAGSQDDDDDDDDSLAFFFLTAHKGRHREI MDGWVRE
 EVGGEVLDNAAELVMQCLSMAGEERPTMKEVADRLAGMRSRASDS*

>OsWAK78 3081.t00017, Chromosome 8, protein sequence
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 MEVFLVWRALVWLALI TPAAALAQEEA PGCRRRRCGNVTVPYPFGI GSERCYRGGVGRFR
 LDCDDARRPPRLTVAGYGHVTSI SLAAA ETVLLNASRACYGGGDYGRGRRGREEQPM
 LNSGAFATFSSMKSFVAI GCPGLAYFVDDGGDYVTGCI ATSRSGLASYPRLRSFGRROG
 GAFLANLACAYAFMVDAMWFWYAGSNFNRTGDFAVPVVLDWAI RPDAGSGSGSGSCAAA
 SRTPLPSYACRSAHSVCI DSSNGPGYI CNCTAGYHGPNPYVVGDCDTI NECEHKDEYPCYG
 VCTNTAGSYACSCPKGSSGNASVEGGCRRDDKFTLALKTVTGNI TFYTSRNNLSLEKAVT
 DKPAA*

>OsWAK79 9637.t01754, Chromosome 9, protein sequence
 MAGGMSDGSGAATTAGGVGDGSDAGGNSNCVDDI KGGYRCKCSHG YEGNPYI KDGCKDI
 NECLDNATYPCMG I CKNTI GSFDCSCYPGSYMKNGFCLPNQKSTFPARHVI GASVGFVI L
 VI AI TFACYVQORRKLOHI KNNYFQOHGGLI LFEEMKSQOGHAFKI FSEEELOQATKKFN
 EQEI LGQGGNGI VYKGLLKSNEVAVKKCMTI DEQKKKEFGPMLVYEFI PNGTLFHLI HE
 NHGNI SLI TRLRI AHESAEALAYLHSCASPP I LHGDVKSSNI LLDNNFSAKVSDFGASI
 LAPTDEMQFVTLVQGTCTGYLDPEYMQTCQLTDKSDENKLEDMLNDQI KNNENMEFLEEMA
 ELARKCLDMSSI NRPSMKEI GDELGRLRKVMEHQCARQNPEEMESFLGDSSYVI NSTVES
 TKSFSI EKNAMKRLKSGR*

>OsWAK80 9637.t02571, Chromosome 9, protein sequence
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 HCGLEAPYTNYPFKFDCKPVDGTSKPF FRGMEVTKI SMEDGKAWMKMNI SKNCYNQSTGT
 REDNTNTTSVSFSRSPFWI SDRDNKI I VI GCETFSYMQI NNVSKTTLTCELEVLTGCVPS
 CRNDPKDGI CSGEAGCKLDFPNGTWYYSTYFSKRNNNSSPCSF I TVMETTTTFNFKNYF
 NSTTFYD TYNGLAKVSLDWI I TMDSCDRVKRNTTSYACI SGKSRVDDPKGGYRCKCSDG
 YEGNPYVKDGCKDI NECLDNATYPCPG I CKNTLGNFTCSCYPGNYMMNGI CI PNQKSGFP
 KNLVI GASVGAVLLVI I VTYACFI REKRKLQYVKRRYFRQHGGMLLFEEI KSQOGI SFKI
 FSEEELOQATNKFDKQVLDGQGNATVYKGLLKGNTI AVKRCI TI DMKQKKEFGKEMLI
 LSQTNHRNVVKLLGCCLEVEVPMLVYEFI PNGTLFSLI HGHNHQHI SLDTRLRI AHESAE

OsWAKs-Supplemental Data 2[1].txt

ALAYLHWSWASPP I LHGDVKSSNI LLDKDYVAKVSDFGASI LAPTDESQFVTLVQGTGCGYL
DPEYMQTCQLTDKSDVYSFGVVI LELLTRKKAFLNLESPEDERSLAMRFLSAMKEKRLSDI
LDDQI MTGDNLEFLEEI AELAKQCLEMSGENRPLMKEVADKLDRLRKVMQHPWAOQNPEE
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>OsWAK81 AK060211, Chromosome 9, protein sequence
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EFGKEMVI LSQVNHKNI VKLLGCCLEVEVPI LVYEFI ANGTLFHLI HDGHGRHI SI STRL
QI AHQSAEALAYLHWSWASPP I LHGDVKSSNI LLDGDFTAKVSDFGASI LSPTDDAQFVTF
VQGTGRGYLDPEYMQTWKLTDKSDVYSFGVVVLELLTRKKPLNFDGLEDEKSLSVRFLSAV
KENKLEEI LDDQI KSEENMEI LEEI AELARRCLEMCGENRPSMKEVAEKLDRLRKVLHHP
WALHNLEEAESLLGESSI VSSEVVSTGNFSI EKKSLI GLESGR

>OsWAK82 AK111541, Chromosome 9, protein sequence
MLVYEFI PNGTSLNLI HGNHGOHI SLVTRLRI AHESAEALAYLHWSWASPP I LHGDVKSSNI
I LLDVNFMAKVSDFGASI LAPLDKSQLVTLVQGTWGYLDPEYMQTCQLTDKSDVYSFGVVI
LELLTRKNVFNLDAPGNEKSLSMRFLSAMKENKLENI LDDQI SNEENMEFLEEVDLAK
QCLAMCGEDRPSMCKVAEKLDRLVKVMQHPWTQONPEELESLLGESSYI I SSGASSTGNF
SI EKKVVKDLASGR

>OsWAK83 9637.t02576, Chromosome 9, protein sequence
MAKLLLSALLI CI SAI WVVAADVPAGRRGCQTRCGNLDI PFPFGI GDQCAI HGGFGLDC
KNDSGTYRTFI GPFEVTKI SVPDAKAWMKMI SWQCYDPVTQMNDSMVGNFTNTPYRF
SYEDNKI FVI GCNTMAYMRGVSYVI GCLSTCSDEPTNGSCSGAGCCSVDPDLGYVEAY
FNKDYNTSQI WNYSRCGYLVVMEKAAFRYSTTYI PSI NFWNDYNGTVPVMDWVI RRET
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AGLCQNTMGGYDCSCHQGHKVEDVCPDQKNQKSSWEMPVVGASVGFVI LVI I ATCSYL
I HERRKLOHI KQKYFKLHGGLLLFQEMNSNERKSFTI FSEAELQHATNKFKNQI LGHGG
HGTIVYKGLLDKNTI AVKKCMTMDEQHKKEFGKEMLI LSQI NHI NI VKLLGCCLEVOVPM
LVYEFI PNGTLCNLI HGNHGOHI SPVTRLRI AHESAEALAYLHWSWASPP I LHGDVKSSNI
I LLDVNFMAKVSDFGASI LAPL NKSQVTLVQGTWGYLDPEYMQTSLDLI ELLTRKNVFN
LDAPENKSLSMRFLSAMKENKLENI LDDQI SNNENMEFLEEVDLAKQCLAMCGEDRPSM
KEVAEKLDRLI KVMQHPWTQONPEELESLLGESSYI I SSGALSTRNFSI EKKVVKDLASG
R*

>OsWAK84 AK119296, Chromosome 9, protein sequence
MKLOYTRAVLASLFCVCLSAVWVAATADI PAGQRPQPCPERCGDVEI PFPFGI GKHCAMQ
TKYFDLDCLDVNGTKKPFYNNNEVTI SVQEGKAWMKLGI SSQRYDHVTGHI LYDSNAT
AEFGDSPFWLSTENKI I VI GCQTMAYMESNAYVI GCFSTCNGSTPVNGSCSGGGCCQMDV
PGHI YSYDGYFDEYNDISKI WRSSPCSMAVMEKAFQFSTTYLNSTVFI DTYKEGVPV
LDWVI TLDTCCEKAKSKTTSYACVSTNSI CNDDPSGGYRCNC SHGYEGNPYI KDGCEI NE
CLDNVTYPCPGI CNNTMGSTCSCHQGNMENGTCI PNRKSGFLALPI VGWFPSSVI TRT
NDNANHLCTPI

>OsWAK85 AK071360, Chromosome 9, protein sequence
MEVAVKRCMTI NEHQKKEFGKEMLI LSQI NHKNI VKLLGCCLEVEVPM LVYEFI PNGTLF
DLI HGNHGOHI SLATRLQI AHESAEALTYLHSCASPP I LHGDI KSSNI LLDRNLI AKVSD
FGASI LAPTDESQFVTLVQGTGCGYLDPEYMQLCQLTDKSDVYSFGVVLVELLTCQAFNL
NAPEHEKSLSMRFLNAMKNNKLADI LDDQI KNSNMPFLEEI AELAAQCLEMSGVNRPSM
KHI ADNLDRLRKVMQHPWAEQNSEELESLLGESSMVSSRYTSTGNFSI ERKGMELDSGR

>OsWAK86 9637.t01417, Chromosome 9, protein sequence
MPGNYVVVVVLSLALVLLLPLFAAVDDGMRSGGKCTNSCGNVGFEYFPGVEDGCIYRG
GGFNLTCHNTYQSPRLFLGDGVSQVLDI SVPHGWALI NNTGMVFNSTETRVVLRNRTWDQ
VGGPYSLSGSNKI ALVGCNARVDLRARVKVKGGRGGDDDTGSNLI SSCTAVCPDLDEM
TPVFAI GSGSSAACSGVGCQADI NLDI PSSYTI QI HNLQELGSI SPTDLVFI SKEEF
SYTNDMAFGNNI PQALPALLDWYI SSDPSECTYESAPDCLSANSFCHAYDLGYKCHCSDG
YQGNPYI RGGCHDI DECKSPQDYSCYGN CNNTPGSHI CDCPRGYERNASTPNGCKDI DEC
GHRETYQCYGECI NFPGGFDCLCYHGTGDPRKEGGCLPVKHHLSARDLGLFI GLGVGSG
TI LLLI AVGAPFLSRKMKDRMRI AVEVARALTYLHSAATVPLI AKVSDFGASRYVPI NQT
EVTNAVQGTI GYLDPEYYYTGHLMKSDVFSFGVLVI ELLTRKRPTYRTDQGDLSVLHFA
SLLRQGLVGI LDPQVLTEGGGEVMEVALLAGMCTRMGTQDRPTMREVEMGLENLRVSKK
LASHDTASSSLVSQMAEHRMI ATGDMEESSI QYSMEK*

OsWAKs-Supplemental Data 2[1].txt

>OsWAK87 AK099582, Chromosome 9, protein sequence
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 LEELEKATNRFDEMRKLGSGGHGTGYKGTLPDRRVVAI KKSNI TVRKEI DDFI NEVVI LS
 QI NHRNVVRLFGCCLETOVPLLVYEFI SNGTSLDHLHVEGPTLLSWKNRLRI ALEAASAL
 AYLHSSASVSI I HRDVKSANI LLDGRLTAKVSDFGASRCI PVDQGGVTTVI QGTFGYLDP
 EYYQTSRLTDKSDVYSFGVI LVEMLTRKKPTVFESSDNVSLI ALFNLLMVQDNI YEI LDP
 QVI SEGMENTVKEVAALASACLRKGEERPTMRQVEI RLERLLGGDI LQGLSAELHCLPPO
 LSNTDTTSKLYNMRDFLLSSSFPR

>OsWAK88 4967.t00009, Chromosome 9, protein sequence
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 PYI VNETLNQLLVTCNI QVTLVGSGGNI SGCSSFCSI NDMYTGGVFRSPGNKCAGI GC
 CQQQVSI GRPSYRVELTNLDRDREFSGRVPEAVRI AELGWFDGLAADLLNVSLADTSRRN
 PVPVVLWDVAVASTGLDVTNLNAGLNKQAANNWSCPTAASGRKSACI SSNSFCRNI ADNYRS
 GYVCRCDKGYDGNPYVAGGCQDI NECERAKENGCFGECTNTPGAFLCRCPHGARGNATI P
 NGCTKSNLGLTI GVGI GSGAGLFI LALGAVFLTRRI KQRRARTLRQKFFKQNRGHLLOL
 VSQKADI AERMI I PLAELEKATNNFDESRELGGGGHGTGYKGI LSNLHVVAI KKSNTVQ
 REI DEFI NETEVPLLVYEFI SNGTLYHHLHVEGPTSLPWEDRLRI ATETARSLTYLHSAV
 SFPI I HRDI KSHNI LLDGSLTAKVSDFGASRCI PTEQNGVTTAI QGTLGYLDPI YYYTGR
 LTKSDI YSFGVLMELLTRKKPYSYSAEDESVAHFSTLHAQGNLGI LDAQVI EGT
 KEVNDVATLAVACAKLKAERPTMRQVEMTLESI RQEVLSVSTKSKELHVSWNHAI SE
 GSI FYQAVDTSI VI VSDVGSSDNLCDGAVI GRNRFPGTQCRQ*

>OsWAK89a gi |52077053|dbj |BAD46085.1| putative wall-associated kinase 4 [Oryza
 sativa (japonica cultivar-group)]
 MATSPSALHMQAVALGAFFLLSCLASAOQPPAPGCLDKCGDI NI TYPFGVGGAHCFRDKSFQLECNVVV
 NNSHPRLI MPAYNQQLLSLSPDGEALAALDI QHEAYYYNCNASHPTASASSQPNMTFATLNKSTVYRFP
 VSTYRFNATTNSYVVPVALDVAI RDVHNCSSAAKLNATNYACRSANSKCSDDTDGAGYRCRCSSGGYEGNPY
 LHAGCQGLTTGSI I GI GVGSGAGLLVMALGAFLTRNI KNKRARI LROKFFKQNRGHLLEQLVSONADI A
 ERM I PLAELEKATNNFDESRELGGGGHGTGYKGI LSDLHVVAI KKSQVAVQREI DEFI NEVAI LSQI NH
 RNVVKLFGCCLETEVPLLVYEFI SNGTLYDHLHVEGQPSLPWEYRLRI ATETARALAYLHSAVSFPI I HR
 DI KSHNI LLDVSLTTKVSDFGASRCI PAEQNGVTTAI QGTLGYLDPMYYTGRLTEKSDVFSFGVLI EL
 LTRKKPYSYRSPQDDSLVAHFTALLTHDNLSI LDPQVKEEGGKEVNEVAVLAVACVKLKADERPTMRQV
 EMTLETVRSSLLRQELVPSVAAEESKEKHVSWSYPVSEGTSI ESSRQYSNDEEYLLSSRYPR

>OsWAK89b gi |52077054|dbj |BAD46086.1| putative wall-associated kinase 4 [Oryza
 sativa (japonica cultivar-group)]
 MAVALAI LLVGLAPATPLSSAQPPGCPSTCGNI SI PYPFGI GAGCARDEGFQLECNHTSSPPLLI VSNS
 TGGRHRQQLLSLADGEARTFLTAKRRCYNSSGDMVSENDONATEMSLGTYPYRFSRSRNLVALGCP
 NLAYLVDGRGSI SSCTSI CRTPESVAGSTVGFTGEGCCQSSI PYSVDVYKPI I GFKQGGAGDSVLLN
 STAASSI LOSSTVCRYMYLAEDRWI DAAYRDGAVDFNRTDDFAVHVLDWAVRNAGNCSAARNRLAAANY
 ACSADSVCVDTGDGDGYRCNCSKGYEGNPYHDGGCKDI NECERAKEYPCFGVCI NTLGSYQCSCPPGTS
 GNATI QTGCVKTNQALTTGSI I GI GVGSGAGI LVMALGATFLTHRI KNRRARMLRQKFFKQNRGHLLEQL
 VSQKADI AERMI I PLAELEKATNNFDESRLGGGGHGTGYKGI LSDLHVVAI KKSQVAVQREI DEFI NEV
 AI LSQI NHRNVVKLFGCCLETEVPLLVYEFI SNGTLYDHLHVEGPTSLPWYRLRI TTETARALAYLHSA
 VSFPI I HRDI KSHNI LLDGSLTTKVSDFGASRCI PAEQNGVTTAI QGTLGYLDPMYYTGRLTEKSDVFS
 FGVLI ELLTRKKPYSYRSPEDDSLVAHFTALLTHGNLGI LDPQMNEEGGKEVKEVAVLAVACVKLKAD
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>OsWAK90 4967.t00013, Chromosome 9, protein sequence
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 GTWGGVAATSTNPYVSGELNQLLVACNI QVTLVGSGGNI TGCSSFCSI NDKYTGGVF
 RSPGNKCAGI SCCQTPSI GRPSYSVKVTI MDNEYRGEVPEAI RI AELGWFDGLAANLLK
 KPAANDTSLRTPVPVVLWAVASTGLDVTLDAGLNQAANNWSCPTPGEARRSACI SNNS
 YCHNVTDNYSRGYVCRCDGDDGYPYVAGGCQDI NECERPKEHGCFGECTNTPGAFLCRC
 PHGARGNYSI PNGCTKSNLGLTI GVGI GSGAGLFI LALGAVFLTRKI KQRRARTLRQKFF
 KQNRGHLLOLVSQKADI AERMI I PLAELEKATNNFDSRELGGGGHGTGYKGI LSDLHV
 VAI KKSNTVQREI DEFI NEVAI LSQI NHRNVVKLFGCCLETEVPLLVYEFI SNGTLYHH
 LHVEGPTSLPWEDRLRI ATETARSLAYLHSAVSFPI I HRDI KSHNI LLDGSLTTKVSDFG

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ASRCI PAEQNGVTTAI QGTLGYLDPMYYTGRLEKSDI YSFGVVLMEELLTRKKPHSYRS
AEDESLVAHFTTLHAHGNLGD I FDAQVMEEGKKEVNEVAVLAVACVKLKAERPTMRQVE
MTLESI RSSLQOEVLHSVSTKSKELHVSWSHAI SEGTSLDSTROYSLLEENLLSSRYP
R*

>OsWAK91 AK107166, Chromosome 9, protein sequence
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AGAGPYVVEQNRNLVVTGCNVQATLAGENTNI I GGCSSFCPVSEMFTSVAATVPVVP
GADNATDGGFI CSGTSCCETPI AI GRPSYLVQFLSLDONQELTGKLPVAVRI AERGWFEG
VAGELLNTSSDSAAALRTPVPVWLEWVVSPTLEAVLQGVGTQFADDRNWSCPADAARSAC
RSSNSFCSNVTGNRYRGYVCRRCRGYGGNPPYVAGGCLDI DECKLAGRCYGECTNTPGDYQ
CRCPRGARGDPRI PNGCVKTNLGLSVGI GVGSGAGLLVMGLGAAFLKRKVKKQARMLRQ
KFFKQNRGHLLOQLVSQKADI AERMI I PLSELEKATNNFDRSRELGGGGHGTVYKGI LSD
LHVVAI KKSKEAVQREI DEFI NEVAI LSQI NHRNVVKLFGCCLETEVPLLI YEFI SNGTL
YHHLHVEGPMPLPWEDRLRI ATETARALAYLHSAVSFPI I HRDI KSHNI LLDGSLTTKVS
NFGASRCI PAEQTGI TTVVQGTGLGYLDPMYYTGRLEKSDVFSFGVVL I ELLTRKKPYS
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>OsWAK92 AK102702, Chromosome 9, protein sequence
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GRGAWRGLDGGPFALSEDRNELVVWGCDDVALLTDGGGSGNSSNVTI SGCAFSCPGTD
AGGOAI AAPAGSTMSLTEDRRCTGVGCCOMPI SVGRDSYQVRLRRLNPSPPQPPPPQAG
DPTVLI AEQGWAEASRSTRGYPLVTFDETAVPVLLGMMI ASTRVGADGEVPVDSTCP
ADAARSACKSSHSSCRNVSSSARAGYVCDGAGFHGNPYLATGCQDI NECERAEEHGCFCG
ECI NTAGSFLCRCPAGMOGNYTQRNGCFRPPPLPARSSTGLSI GVGVSAAASLI LI VI MAI
FI I RKQKRRRAKKI RQKYFKQNRGQLLOQLVAQRADI AERMI I PLGELKKATNNFDRARE
LGGGGHGTVYKGI LSDLHVVAI KKSKI AVQREI DEFI NEVAI LSQI NHRNVVKLFGCCLE
TEVPLLVYEFVSNGTLYSHLHVSGPRSLPWSDLRI ATETAKAI AYLHSSVSI PI I HRDI
KSTNI LLDLTLTSKVSDFGASRCI PVDQTVTTKVQGTGLGYMDPAYYYTQRLTEKSDVYS
FGVI LVLELTRKKPFSLHTPEGEGLVAHFVTSFTEGNLVGVLDLQI MEEADMKVVEVVAT
LAVTCVNLRGEDRPTMRQVEMALEGI QASRENVSGNLSAEKLGESNNVARDFMPSQEGRS
MTEGTRQYSLEEEFLSSRYPR

>OsWAK93 gi |19551099|gb|AAL91604.1|AC099400_10, Chromosome 10
MI FSKDELKKI TKNNSEVLGGGFGKVYKGLTGDNTI VAVKTSI EVNEARKDDFTNEVDVPMPLVYEFAAN
GNLQDI LHGDGNI PLPLHLRLDI AI ESAEGLRYMHSSNTRTI RHGDVKPANI LLTDKFI PKI SDFGTSKL
LTVDKDFTMFVVGSMGYI DPVFHKTGHLTQKSDVYSFGVVLLELI SRKPTI YGENCSLI I EFQKSYDKEN
SGRMMFDKDI EI EEDI LI LEEI GRLAMECLKEKVEERPDMEKEERKMKKQTTNNVI VFPSRKKKQKRKED
GRRFSGDQTAARVRLKFALNDRQQRNTYPLLVE

>OsWAK94 gi |19551100|gb|AAL91605.1|AC099400_11, Chromosome 10
MALRAVAVAGALLLVVVGSSAAGAGSGSCQTRCGDVI PYPFGI GPNC SRGVGFEI ECNTRNGSGDLVP
TLAATSLSI VQNLVESPPMAKVMLPVAYKCYDDPTKTQDFNGEVELNKTGVYRI SDELNMLVVLGCNTM
VYTKNGNSEGGLYPYLYTTCI AYCNDRSQAQDGKAGAGCCHVDI PGGLTDNTLVFDSWNRTK

>OsWAK95 3135.t00009, Chromosome 10, protein sequence
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SNGGLVPTLAAANDTI QVQNLTVFPRPEVKVMLPVAYRCYNSSGNVTEQFYGDVELNKTG
VYRI SDERNKFVVLGCNTVAWNKHGDSEGKGLYTSLYYAGCVTYCSDLSAKNGKCAGVG
CCHVDI PPELTDNVVTFQOWPRGEQVDFSPCDYAFVLVDKEEYQFORSDLNMDRKORMPVW
LDWAI RDVASCPAPEVETSKKNMPAGYACVSVNSTCVNSTNGLGYCNCSSGYEGNPYDD
DPNKGCKDI DECAHPNKYPCHGVCNTPGDYECRCHTGYQPSGDGPKKQECSSKFPPAR
LAVGI TLGLSFLI VVVLFTLMMLOKRKMKNKYFKKNGGSVLQKVDNI MI FSKDEVKKI LKN
NSDI I GEGGFGKVYKGRLLKDDTLVAVKTSI EVNEARKEDFTNEVI I QSQMMHNNI I KLLG
CCLEVDVPMPLVYEFAANGSLKDI LHGDANRLVPLSLDLRLDI AVQSAEGLRYMHSSI SHT
I RHGDI KPANI LLTDKFI AKI SDFGTSKLLTADKEFTMVVAGSMGYI DPI FYMTGHLTQK
SDVYSFGVVLLELI SRKPTI YDKNYSLVI EFQKAYDRENSGRALFDKEI AI EEDVLI LEE
I GRLAMDCLKEI EERPDMEKVAARLMMRLRRSRNLGQENYNRFKSRLLLEVYHEGPSAGL
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REGTGFAKYQTPP*

OsWAKs-Supplemental Data 2[1].txt

>OsWAK96 3135.t00011, Chromosome 10, protein sequence
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STGVLVPTLAAARRHAI QVQKLTVFPRPEVKVMLPVAYTCYNSGGNVTRQFDGDVELNNE
GVYRI SDERNMFVVI GCNTVAWNQHGDSSGGKGLYRNLYYAGCVTYCSDSRsAMDGKcAGV
GCCHVDI PPELTDNVVYFEQWPRGEQVDFSPCDYAFLVDKEEYRFRRSDLKMElnRRMPV
WLDWAI RDRRGNDSSVASCPAPEVEKKKPAGYACVSANSECVNSTNGPGYYCNCsNGYEG
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>OsWAK97 3135.t00012, Chromosome 10, protein sequence
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AAQLALGVSLGFSFLVVVVLFTLMMMLQRRKMNEYFKKNGGSI LQNVdNI VI FSKDEMKKI
LKNNSEVI GQGGFGKVYKGRlKDNTLVAVTTSI EVTEAQKEDFTNEVI I QSRMMHNNI I K
LLGCCLEMDVPMLVYEFAANGSLKDI LHSdASHLVPLTLDLRLDI AI ESAEGLRYMHSSI
SHTI RHGDVKPANI LLTDKFVAKI SDFGTskLLTVdKEFTMVVAGSMGYI DPVFYMTGHL
TQKSDVFSFGVVLLELI SRROTI YGKNRSLI I EFQeAYDOANSGRLLFDKDI AI EEDVLI
LEEI GRLAMECLNEKI DERPDMKEVVARLMMLRRSRKLKQENYNI SRQOFFEENSI DELP
KSFDDNSSSSSAELLSNLATKNSLTyrSTTGRD*

>OsWAK98 AK105108, Chromosome 10, protein sequence
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I GCADALSYMHSMLNSGLI CHGDI KPANI LLDSNLTSKLSDFGVSRLLSGGVTOYTVH
I KGSVSyMDPI YFHEGCLTPRSDVYSFGMVLELI ARKRVrkGDI NLI GGGEI FDAEI AN
RSNMKI LKEMRKLAI ECLTLDI HKRPQMNvVAKRLRTLKKELKDMHGRYSEHI LASHRSW
RKNDNOGPSYNsRMOLKKSLSI FKRNLSNSSKI LLGLGNMRI FTOEELNEI TONYsCLLS
GGTSGKVYKGTLEDNTVVAVRI FSEALEGFEEAFI NGGMI LSQI VHKNI I RLLGYCLNAD
CPAFVYEYAARGTLSDI LDGREDFPLHLRVKI AVETAeALEYLHSSAAGMI RHGYVAPSK
TLVDDsFTPKLTGFSWAQRlNNDDSAI HDHDKYCVSLKLKTDVYQFGVLVLTli SRKNFA
FYADHEHLVSQFLAAYKADNSGRAFFDDDI TTRSEDVALLEEI GKLLLKCI CLEI DQRPT
MKQVAQHLRI I RRCWKNNCTADGASLVTN*

>OsWAK99 3164.t00008, Chromosome 10, protein sequence
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RAYGAVTTDCAATNGTYHEFRRLTLVLSGSPFVFSASRNVLtGVGWDMEaQLTTSLASTG
YRLNCASRLMFpETAENGSCSGMGCCeANVTAGLRI ASVTFAHKKNVFWSSNPcSYGMI V
QKNWYNFTKEDLYGNQTLsRKHPRGVPFVLDFAI ANVSCPAQGOpPLDNYACRSSNSFCV
NATSSPGYI CKCSdHYDGNPYI ADGCODI DECQLRI QPELrDVYPCSSDGI CKNRPGGY
DCPCPKPGMKGDGKAGTCTEKfPLVAKVI VGVVAGLLVLATLVFVFLRKEKQKMREFFI R
NGGPI LENAksi KI FRKEELKRI TKTYSHVLNGAFGMVYKGFLEQHPVAVKKsMKVDK
TQKDQFANEVI I QSQVI HKNI VRLI GCCLEVDVPI LVYEFVSNGSLQDI LHGENKVPLTL
DKRLAI AAESAeGLAYMHsKTSTSI QHGDVKPANI LLDDQFNPKI SDFGI SRLI ARDvTE
HTNDVI GDNNYMDPVYRETGLLTnKSDVYSFGLVLFEI I TGKKAVYGGESSFVRNYLDTY
LTEI RANKMLFGKEAEEDKI EHLHNLVVI SKECLDNNVDQRPEMTDI AERLQGI I RSRKF
LN*

>OsWAK100 3830.t00015, Chromosome 10, protein sequence
MEDKLGLPENKLrDFI QGADKAKWI AKNNHNI KYFTEDEI KRTTSNYSTSLGNGSFGKVY
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NGTLcENPHGSNPVYLDRKLSI AI QCAEALEI VLHI LPT*

>OsWAK101 AK111067, Chromosome 10, protein sequence
MSSVRHSCSNFPI TTKTFMLLSLQI LGSSNSVTPFPSARA

>OsWAK102 3178.t00025, Chromosome 10, protein sequence
MDLQKNKHNEFI EKPKWI EDNI SNI KAFTKEDI KGI TSNYSKRLGNGKLGKVYKGI LDDN
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LHVKNSLDSLDI RLNI AI DCADALGYMHsMCSPVLHGdVKPSNI LLDDSFNAKI SDFGI S
RLLSTDKTHTENMI TCYMDPLYyQEGRLTSKSDVYSFGI VLMELI TKKRATCLTQALAEG
QEMTELLDPMI ANESNMKVLEI EKLvQECLAEDI DRRPDI CDVAAYLRMLRKMSQQAPO
ENFGWHLFAETQNDFFKQSHQGTNI I SSI KMFVPRMMGI LNVNMAKSENKGTPLYVSGKR
I FTALEI KKI TGNYSRI I GKDMFTVVYSGI LEDNTQVAVKTHNMFERGKWRCANELNSLS

OsWAKs-Supplemental Data 2[1].txt

ELI HKNI I NLLGFCYEMDAVI LVYELI ERGHLNLI LHGNDTKRFLPLDLRLDI AI GLAE
GLSYMHSRSKPI LHGNI RTVTVLDDKFVPKI SGFGSSKI GEDGKCRI VGSEMGYMDETF
VNTRVLTRKSDVYSFGVLLLELI TRKRI YYNGKDNNTAI NFAKVYEKEGSGRAMFDNEI S
ADKNI PTLEDI GI LAMKCFNPDI DKRPEMKEVCEQLLMLKRSSKKGKGI *

>OsWAK103 3970.t00002, Chromosome 10, protein sequence
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GVYRI SDSRNMFFVI GCNTLSYTONGNSGGKGPYAGLYTTGCVSYCNDSSSARDSMCAGV
GCCHI DI SPGLSDNVVSFGPWKRGFQVDFSPCDYSFLVDKNEYEFRSADLKMDLNRTMPV
WLDWAI RDSVTCPPLEVQEKKPAGYACMSDNSECVNSTNGPGYYCKCKQGYDGNPYVDKD
QGCKDI NECDVSNKKKPCYGVCCNI PGDYECHCRVGYQWSGEGPKKQECSAKFPLAARL
ALGI TLGFSFLI VAVLFTLMMHKKRKMNEYFKKNGGSVLQKVDNI KI FTKDELKKI TKNN
SEVLGQGSFGKVKYKTLEDNTPVAVKTSI EVNEARKDDFTNEVI I QSQMMHNNI I KLLGC
CLEVDVPMLVYEFAAKGNLQDI LHGDANI PLPLGLRLDI AI ESAEGLRYMHSSTSRTI RH
GDVKPANI LLTDKFI PKI SDFGTSKLLNVDKDFTMFVVGSMGYI DPVFKHTGHLTQKSDV
YSFGVLLLELI CRKPTI YGENCSLI I EFQDAYDQENSGRI MFDKEI ANEEDI LI LEEI GR
LAMECLKEKVEERPDMKEVAERFVMLRRSRKCG*

>OsWAK104 3970.t00008, Chromosome 10, protein sequence
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NNGVYRI SDKRNMFFVLGCNTMAYTNNGDSHGKGPYAGLYTTGCVSYCNDSSSAQDGMCA
GI GCCHVDI SPGLSDNVVTFGEWSRYFQVDFNPCNYAFLVAKDEYNFQSRDLQKDLNRTK
PVWLDWAI RDGGNSSASSSCPAPREVREKMPPEYACVSDNSECVNSTNGPGYYCKCKSKGYE
GNPYLVGGCNDI DECARSDEYPCHGDCRNTVGDYHCKCRTGYOPRGGGPKI DECSQKFPL
PAQI ALGI SLGFSFLI VAVLFTLMMMLQKRKI NEYFKKNGGSI LQKVDNI MI FSKDDLKKI
TKNNSHVI GQGGFGKVKYKTLEDNTMVAVKTSI EVNEARKEDFTNEVI I QSRMMHNNI I K
LLGCCLEVDVPMLVYEFANGSLQDI LHGDANRSLLLTLDI RLDI AI ESAEGLRYMHSST
NCTI RHGDVKPANI LLTDKFVPKI SDFGTSKLLTVDKDFTMFVVGSMGYI DPI FHKTGRL
TQKSDVYSFGVLLLELI SRKPTI YGENFSLI I EFQKAYDEVHSGRAMFDKEI AVEEDI FI
LEEI GKAMECLKEKVEERPDMKEVAERLVMLRRARKHGQGSYNLSPRHHEEII SI ETTPT
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>OsWAK105 3970.t00013, Chromosome 10, protein sequence
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NNGVYRI SDSRNMFFVI GCNTLSYTONGNSGGSNTHSGLFYTGCVTYCNDSSRAQDGRG
AGVGCCCHVDI SPGLTDNVVSFGPWTRGFQVDFSPCDYSFLVDKNEYEFRSADLKMDLNRT
MPVWLDWAI RDSVTCPPLEVQEKKPAGYACVSDNSECVNSTNGPGYYCKCKQGYEGNPYD
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RLALGI TLGFSFLI VAVLFTLMMHKKRKMNEYFKKNGGSVLQKVDNVKI FSKDELKKI TK
NNSEVLGQGGFGKVKYKTLEDNTTAVKTSI EVNEARKDDFTNEVI I QSQMMHNNI I KLL
GCCLEVDVPMLVYEFAAKGNLQDI LHGDANI PLPLGLRLNI AI ESAEGLRYMHSSTSRTI
RHGDVKPANI LLTDKFI PKI SYFGTSKLLTVDKDFTMFVVGSMGYI DPVFKHTGHLTQKS
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GRLAMECLKEKVEERPDMKEVAERLVMLRRSRKCG*

>OsWAK106 gi |19881772|gb|AAM01173.1|AC113336_25, Chromosome 10
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RRARRVPHNEGTDLTATI AREGFDSYVLAVLRRSHRECRGGRSRPGKKAVAATAGDRARHPEAPPPDGSG
LPGLDPLAGGDI DECALPGI MSNCSFNSVCVNRPGGFDCPCCKRGMTGDGKRGTCTENFPAAKAAVGLSS
FI VFI VLI FMVKOHLKLLKFYEONGGPVLKGVRI KI YTKKELKQI TSNYSSDI GEGASGKVYMGTLKGG
QQVAI KKSKKVDEERKSEFTQEVI LQSEMKHNI I QLFGCCLEVDVPMLVYEFTVKGSLHDVLFKCDENM
KGNLHDVLPKYNDNKKGKGKGVHDALVECDGNKNVSLHDVLFKCGDKI AI DTLLEI AI GSAEGLTYM
HTAREPI RHGDLKSGNI LI DNNFVPKI SDFGTSRLVAGHKFRPDKFI PADMNYI DPVYMEDGMLTEKS
DI YSFGI VLI ELVTRKPAKYDDDRSYVRNFI QAYLDREREKCHKEI TPDVEI NI LEMVSEVAVACLEPV
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>OsWAK107 gi |22711562|gb|AAM01174.2|AC113336_26, Chromosome 10
MI RVLI LLLTGFLAI AEKPAQPTLQGCAPAPDMCGNI TI PHPFGI KPGCYLAGFEVI CDRTFNPPRA
FLAGDPPLFGDKLPPNVSSKPFVTANFYSGTDAGMPSEMNVYTRGPLELLDI SVNQSKLRVYAAI NS
DCSTNETHHI LFEQSI KLQPSGPFTLSANDNSLVGVGQNV I AMFADSYAGEEYSTI CLSFLSSVSKARNG

OsWAKs-Supplemental Data 2[1].txt

PCENATGLGCCQQTLP PGVNTTLVRFQHRNNSKWRTPCSYAMLVEKSWYNFSTEDLFEYPAFPNKPYPNG
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CQGTPTPEPTGDGS

>OsWAK108 3650.t00001, Chromosome 10, protein sequence
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MSI NLTEGVARAYGPVSSDCSLNDTYHLVKRQMTGLAGPFLI STRNALTAVGWNMEANLA
RSVRSGFLKTCGVRLGQPEFATNGSCLGGGCCQGEI TQGI GSI AKDWYNFTSPDLYSDN
FSKKYPKGVPLVI DFAI RDGFCPAAGQAPPANYACVSSNSSCVNVTNGDGYI CNCSKGYD
GNPYI PNGCHDI DECALRDSHP ELRVLYPCSRNGI CMNRPGGYDCPCKRGMMSGDGKAGTC
SEKFPLQAKI VVGAI GGLFI VAVLVFLALVHREKRKMREFFEKNGGPI LEKVNNI KI FKK
EELKPI LKASNI I GKGGFGEVYKGR LADNKLAVAKSI KVNAAQKDQFANEI I I QSRVI H
KNI VKLI GCCVEVDI PI LVYEFI TNGSLDDI LHGSNGEPLSLDLRLDI AAESAEGLAYMH
SKTTNTI LHGNVKPANI LLDDNFVPKI SDFGI SRLI AVDKNQHTDKVI GDMSYMDPVYLO
TGLLTKKSDVYSYGVVLELEI SRKKATYSNNSLVRNFLDAHKEKRKATELFDKDI TLAE
DLVDLDGLVRI AVECLNLDVDQRP EMTKVTTDDLFI LMKSRACKETKQ*

>OsWAK109 3650.t00008, Chromosome 10, protein sequence
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VTRGEVRVAVPVSSDCSTNESYHEL SI FTQSLNFSTTFLFSATRNVL LGVQSVRARI DG
VMSGTNYSAACNSLFDTPAKAENGTCMGLGCCEAELAPELGMI TVSMYKQSNMWWETFP
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SLCVNTTNGQGYVCKCQEGYEGNPYLPDGCQGNLI LRE*

>OsWAK110 3650.t00009, Chromosome 10, protein sequence
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ATLGI I GLTSI VVVVVL FKL LFDERRKTKEFFI KNGGPVLEKVDNI KI FKKEELKPI I QS
CNVI GKGGFGEVYKGLI DDKLVAI KKS I NVDKLQEKQFTNEI I I QSKVI HKNI I KLI GCC
LEVDVPM LVYEFVPRGSLHI LHGNRKESLPQKRLNI AAGAAEGLAYMH SKTSTTI LHG
DI KPGNI LLDENFDPKI SDFGI SRLI AI DKTHTKCVI GDMCYMDPI YLQSGLLTKQSDVY
SFGVVLLELLTRQKASSGEDTRLVTTFLDAYTEDHKGAI DLF DREI LLEGDTVEVFNNLAI
LVVDCLKFEVERRPEMTDVEERLQTMKRSYVPKSI SDASSI DT*

>OsWAK111 9638.t00862, Chromosome 10, protein sequence
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I GVDGLNI YFI HFNL I PI TSTHVI PI NSGGDVYNFSWKNP GDSFTFARQGMTFVVTSCDL
DVYMV DQEKSTPI LLGTI ACPSKEI AEMVYRQDSEGP GWTI DSLPARTVQLOFVRHKTG
NTQKYFNL TMLWDRI NI TVKANLAWNI VDQTRCLNNMEDDRKNHACI SNHSSCVSSQYI D
VGYACRCNDGYVGNPYI MDGCKLDDGYNPRPQKHNC SRQCGTI VVPFPFGLEEGCAAREV
FQLSCLGKPNVSLQYNDFI GVQYI NVSEGLVGI KYNSSFVEI LFNMF SQFRFSSQGVSN
I FGKGP NLVDPTEASVQWAVANLTCQQAQNTSTYACVSTNSSCSRVI STMQGYVGYR
CTCLPGYDGNPYI PDGCKGI I I GLTI GFGVLI LSSI VI AI I RRWKR DVHKKI RRKYFQKN
QGLLLEQLI SSDESASEKTKI FSI EELKRATNNFDSTRI LGHGGHGTI YKGI LSNQHVVA
I KKA KVI KEGEI NDFI NEVAI LSLI NHRNI VKLFGCCLETEVPLL VYDFI PNGSLFELLH
HDSSTFPLSWGDLRI AAEAAGALCYLHSAASI SI FHRDVKSSNI LLDANYTAKVSDFG
ASRSVPVDQSHVVTNVQGTFGYLDPEYYOTGQLNEKSDVYSFGVVLLELLLRMOPI FTTM
SGMKQNLCTYFLSEI KTRPI I DLVDPPVLDKANEEDI RQVASLAEMCI KLGEEPTMRQ
VEI TLQLLRTEKMTPSHVSPDRNQEI ESLLTQGA I DQVI HALVNVDRANVASQRSQTSY
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>OsWAK112a AK111815, Chromosome 10, protein sequence
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NSHLI TPYREVTARKFERRSLLQDHSSDDRSSNASLPSAATLANCPKRCGNLSFDYPFG
I GDGCFRHPDFSLTCNATTOPPKLLHI NESVEVI DNI EVVGKDI AEFFYFNFFMVAFNH
LI PI KAGVDVYNLTWKAPGI SFTI SEMMI I TVVSCDL DVFLI GODNTPKLLCMVACPNKE
I ADMVYMQDCEGPGCCTVLSETPVQAVQLQFVRHETSNAKGI SNLSMLWDRI NI TI GAPL
VWSI VDQTRCSRNMEDNFACVNHSGCI TSVFRDI GYACQCNSGYKGNPFI LDGCKHDSGY
NPRPEKHNCARQCGTI TVPFFGLEEGCSARKRFQNLNCDKTN SVLKFN DYFOV TYI NVS
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OsWAKs-Supplemental Data 2[1].txt

YACVSTSSSCLNLVSSMDGYVGYRCSCLPGYRGNPYI LDGCEDI DECRETPI CKGVCKN
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RHAQKRLQTKYFRKNQGLLLEQLI SSDENASEKTKI FSLEELKKATNNFDTTTRI LGRGGH
GTVYKGI LSNQHVVAI KKA KVI RECEI NDFI NEVSI LSQI NHRNI VKLFGCCLETEVPLL
VYDFI PNGSLFGLLHPDSSSTI YLSWGDCLRI AAEAAGALYYLHSAASI SI FHRDVKSSN
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LLELLLRKQPI FTI NSGMKQNLCSYFLSEI KTRPI TDMVDAQVLEEANEEDI KEVASLAE
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>OsWAK112b, AK111496,
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PLESVSVQAVANLTCQEAQHNTSGYACVSTSSSCLNLVSSMDGYVGYRCSCLPGYRGNP
YI LDGCEDI DECRETPI CKGVCKNTVGNYSCTKCPDHTHEYDI LRMQCTPI RKKSFYLG I
I I GLSSGFGMLLLGLSGI VLI RRWK RHAQKRLQTKYFRKNQGLLLEQLI SSDENASEKTK
I FSLEELKKATNNFDTTTRI LGRGGHGTVYKGI LSNQHVVAI KKA KVI RECEI NDFI NEVSI
I LSQI NHRNI VKLFGCCLETEVPLL VYDFI PNGSLFGLLHPDSSSTI YLSWGDCLRI AAE
AAGALYYLHSAASI SI FHRDVKSSNI LLDANYTAKVSDFGASRSVPI DQTHI I TNVQGT
FYLDPEYYQTRQLNEKSDVYSFGVVLLELLLRKQPI FTI NSGMKQNLCSYFLSEI KTRPI
TDMVDAQVLEEANEEDI KEVASLAEMCLKLKGEERPTMKKVEMTLQLLRTKTMNSSQVDP
I DQEI QTVL TEGASDPEI QPLVTNLDVDRANAASQRFQI SCYSLE

>OsWAK112c, AK111989,
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RMQCTPI RKKSFYLG I I I GLSSGFGMLLLGLSGI VLI RRWK RHAQKRLQTKYFRKNQGLL
LEQLI SSDENASEKTKI FSLEELKKATNNFDTTTRI LGRGGHGTVYKGI LSNQHVVAI KKA
KVI RECEI NDFI NEVSI LSQI NHRNI VKLFGCCLETEVPLL VYDFI PNGSLFGLLHPDSS
STI YLSWGDCLRI AAEAAGALYYLHSAASI SI FHRDVKSSNI LLDANYTAKVSDFGASRS
VPI DQTHI I TNVQGTFGYLDPEYYQTRQLNEKSDVYSFGVVLLELLLRKQPI FTI NSGMK
QNLCSYFLSEI KTRPI TDMVDAQVLEEANEEDI KEVASLAEMCLKLKGEERPTMKKVEMT
LQLLRTKTMNSSQVDP I DQEI QTVL TEGASDPEI QPLVTNLDVDRANAASQRFQI SCYS
LEQEFLSSASLPR

>OsWAK112d, AK111809,
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TEYDI LRMQCTPI RKKSFYLG I I I GLSSGFGMLLLGLSGI VLI RRWK RHAQKRLQTKYFR
KNQGLLLEQLI SSDENASEKTKI FSLEELKKATNNFDTTTRI LGRGGHGTVYKGI LSNQHV
VAI KKA KVI RECEI NDFI NEVSI LSQI NHRNI VKLFGCCLETEVPLL VYDFI PNGSLFGL
LHPDSSSTI YLSWGDCLRI AAEAAGALYYLHSAASI SI FHRDVKSSNI LLDANYTAKVSD
FGASGSVPI DQTHI I TNVQGTFGYLDPEYYQTRQLNEKSDVYSFGVVLLELLLRKQPI FT
I NSGMKQNLCSYFLSEI KTRPI TDMVDAQVLEEANEEDI KEVASLAEMCLKLKGEERPTM
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QI SCYSLEQEFLSSASLPR

>OsWAK113 3170.t00013, Chromosome 10, protein sequence
MELLLLVLFLLLAAMSAAVESI TSTAVKTGCQERCGVDI PYPFGI GPGCSRHGFE LSCVS
NGSGAGPI AVLAGTSI QVTRLSVEPAESQVMLPVGWQCYNTSQPTRTYPDWSRAKTEMNR
GGVYRI SNTHNMLVVLGCNTVGYTESLRSEGGAYSSTYYI GCMSYCNNSASAODGOCAGV
GCCHVDI PPGLTDSSVNFVYDHTGMVDYSPCDY AFLTDR TNYSFRRADLI KMDKNRNVP
VWLDWAI RENGSMSCAEAKGPGYACVSVHSECVDSTNGPGYNCKCTAGYEGNAYAPDGC
TSK*

>OsWAK114 3170.t00015, Chromosome 10, protein sequence
MHTENHTI FVGI TLGI SFLI VGLLFI LMMROKRRMNEYFRKNGGSVLQKVENI KI FTKDE
LKKI TKNNSEVLGQGGFGKVKYKGI LEDNTLVAVKASI EVNDARKEDFTNEVI I QSQMI HT
NI I KLLGCCLEVDVPM LVYEFAANGNLQDI LHGDNNRRVPLPLDLRMDI AVEAAEGLRYM
HSSANRTI RHGDVKPANI LLNDKFKPKI SDFGTSKLLTVDKDFTMFVVGSMGYI DPV FHK
TGRLTQKSDVYSFGVVLLELI TRKPTI YDANCSLLI DFQKAYEQENSGRAMFDKDFTI EE
EI FI LEEI GRLAMECLKEKVEERPDMEVAEQLVI LRRSRKSRQGN YNI SPOQFEEMSTE
GTPLSLETAVSVSSSVLSAPSTPANNDFSNA*

OsWAKs-Supplemental Data 2[1].txt

>OsWAK115 3580.t00004, Chromosome 10, protein sequence
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LDCDDARRPPRLTVAGYGHEVTSI SLAAAEVTVLLNASRACYGGGDYGRGRRGREEQPMS
LNGSAFLFSSMKSKFVAI GCPGLAYFVDDGGDYVTGCMSCVCRPSARALPGSCRGDDGCCQ
SNI PLGLASYRPLRSFGRRQGAFLANATACAYAFMVDAMWWFYAGSNFNRTGDFAVPV
VLDWAI RPDAGSGSGSGSCAAASRTPLPSYACRSAHSVCI DSSNGPGYI CNCTAGYHGNP
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TVTGNITFYTSRNNLSLEKAVTDKPAA*

>OsWAK116 7185.t00001, Chromosome 11, protein sequence
MEVPESKLGDFI QGDDRKWI ADSNHNI TKFTEDEI KRI TDNYSTVI GKGGFGQVYKGV
DDNRVVAVKRYI FEDSMEDLAKEVI AHSQVNHKNVVRVVGYSI EQNNALMVVTEYVSKGS
LHDI LHQSDTPI SLDTRLAI AI QCAEALGYMHSSMYTPI VHGD I KPSNI LLDNLDKI S
DFGI SRFLYGGKTRHTKNVKGSI DYMDPI LFRDGTQSSKNDVYSFGAVLLELI TRKRI KE
EGKVS LI TSFTEHDSEGKRMKDLFDANI ASVSNMKI I NOI GKLATKCLAMDMKKRPMNI
VAEHLRKLREYRNGGHDNTTLWRSFSVTODLFEKYKQSTRNASYGSTKHPKPKKPKKSF
FKHNSGNSKLLLEKLGAVRI FTKKEVKKFTMDYSCLLLDGLAEYHRGI LEDNTLVTVKTP
YDGDESLQKLF SHGNDDLVSHPQEHGQTVGLLLGG*

>OsWAK117 AK102853, Chromosome 11, protein sequence
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LEDALHNSDI FI PLSTR LGI AMGCAKALS YMHSMHLSSSLI CHGDI KPANI LLDANLTA
KVSDFGI SKSLSGGI TRWTSNVKGS I AYMDPI YYREGRVTSKSDVYSFGAVLLELI ARKS
MKEGGI SCEAFROACAKGKGLRELLDI EI AEECNMNI LEEI AKLATKCM I VDNI KKRPM
NDVAEHLRTWI FQVRNGGHEKPAWESTLDKVHDALKKGTSSNFWVI VPMLI I FLFSYMSM
LLKGASMTFCTLKKI SH

>OsWAK118 7185.t00014, Chromosome 11, protein sequence
MELPEDTI MTGDHSQWDDNSNI RSFTKHDI ERI TGNYSI PI GKGGFGEVFKGFI DDYDRD
VVAVKRYI HTDLRKEFMEEVSI HSKI NHKNVVKFI GYSTGENTLMLVTEFI SGNLEDA
LKSDI SI SLDTRLGI AI GCAEALSYMHSMHLSVDLDSL VYHGDI KPANI LLNDSLTA
KVSDFGI SKSLSGGI TRWTSNVKGS I AYMDPI YYREGRVTSKSDVYSFGAVLLELI ARKS
MKEGGI SCEAFROACAKGKGLRELLDI EI AEECNMNI LEEI AKLATKCM I VDNI KKRPM
NDVAEHLRTWI FQVRNGGHEKPAWESTLDKVHDALKKGTSSNFWVI VPMLI I FLFSYMSM
LLKGASMTFCTLKKI SH

>OsWAK119 7185.t00017, Chromosome 11, protein sequence
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LEEFMEEVRI HAQMSHKNI VKLI GYCI GENTLMMVTEFI LNGSLEDVLCNREI SI PLN
TRLGI AVGCAEALSYMHLSDSL VYHGDI KPGNI LLDANLTA KVSDFGI SKSLSGGLTRY
TLHI MGCEYDVPDLYVRDGR LTPKSDVYSFGI VLELI ARKRVKQDGVNLI I SFGQAC
ANGKG LRELFDAEI VEECNMNVLEE I AKLAI ECLTLDI EERP KI NDVAQRLRTLOTH
REGQESAA RKSSSSRMLNALRKGYKQSTSI FSSTPTANHRRNAI SEI KSEMAKQHNFR
SFTKENLFEV MGRYKSP LGDKSGI GRYNKG TLEDNMLVVVKSHLSDEDVFM I FYEASI
VSQI VHEGI I K LLGYCFDADFPMLVY EYVDRGSLYDI LNSAQDI PLGLRLKI TVKTA
EALDHLHSSPFCVR HGDVRSTNI LLDKNLMPKI SGFTSSRRLTKGNLSFDNVEKYCDL
MPKKI I RDDPSYI DPK FLOSDVLT TESDVYFGI I LLELI SRKKLLYQDKKHCPVRL
I PEFI KAYKTEGSGNAMFD KGI TAKKDI VVLENI GRLALRCLSM EI RPTMKDVAEQL
GMI RRAWKQHAPOGHGCTGCWH L*

>OsWAK120 9639.t03169, Chromosome 11, protein sequence
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LTGKAVGI PWVVDHGGGLADDYPYLT I STKNQFAVVGCGI TAI I VGQGENQPDYTVG
CRSF CDDVDSNI VEDNSTQCNGNTGCCQASI PGNLKAFQPSFLKI SGVNYSGVPCVYAF
VVEQN WFKFKTSYAKSMELYSKYRNKGTGVPLVLDLVVGNETCDEAKRNALSYACKATN
SSCI DR PSRSGYL CNCSQGYEGNPYLHGGCQDI NECDYPWLYPCKGLSI GI GVGSATG
FI CI VLI A MFLTRRI KHRRI KLROKFFI LNRGQLLQLVSRADI AERMI I TLDELEK
ATNNFDKAR ELGGGGHGT VYKGI LSDLHVVAI KI SNI VVPKEI DDFI NEVAI LSQI
NHKNVVKLI GCCL ETEVPLL VYEFI SNGTLYHHLHGEGPRSLWSNRLRI AAEI ANA
LSYLHSSVTI PI I HRD I KSSNI LLDNLT SKVSDFGASRYI PI EKTALTTAVQGT
VGYLDPMYFYTGR LNDKSDVY SFGVMLVELLT*

>OsWAK121 9639.t04303, Chromosome 11, protein sequence
MATNKRVELERCMLI GVCLLLLLCLLHTAEALMQHPPADCPETCGNI AI PYPFGI GNNC

OsWAKs-Supplemental Data 2[1].txt

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PCSLGCGQTELTPELSFLNVTWGVGDHNDTTNSAWDYSPCSYAFI ADKNWYSFKREDLV
GNANYFDKKGI PLVLWDWI RSNSSCPHESGKMANPVVYPYACVSSHSYCVNVTNNGHGY
LCNCSDGYHGNPYLPEGCI DI NECDPSTYKENPCPGGTCHNLEGGYKCKCNFGRRKDRKN
NNSCQPVLSKSATALI ATI CAI AI SSI VLI FLRMEYERKRLRDHFNKNGGOLLKNI GI KI
FTKEEVGKI TNNYSI I LGKGGFGEVYKGTNDNQOVAVKRSI AVDEARKKDFANEVTI Q
SQI NHKNVRLVGCLETNPMLVSAYI PKGSLHDVLHGNGNHVAKYNLTLOVRLEI AI E
SAEALAYMHSSASQKI LHGDVKSSNI LLDDDFKPKVSDFGI SRLI SI EKNHTNFVVGDI N
YI DPVYMKGTI LTEKSDVYSFGVVLLELI TRKKARYDGNNSLPI NFVKSMTDSQAREML
DDD TSPEVMDCLHMI GRI AVQSLKEDVDERPTMKHVLEHLHLARSMI PKSTSGQQSGRI
LI ASGI NQAI VRFLTSC*

>OsWAK122 6324.t00019, Chromosome 11, protein sequence
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SSESDVGSPWLDLAGTPFLVSPERNEFTATGCDTLGMMYGREDGSYLTGCVTTCASLDAA
ANDGDHCAGLGCCQI QSI PTNLTLLRI VLSANI TDRKI AAWNPCRIFYFI TDRDQGFYRNF
SRKDLGRSGNKI FANRDGEMVVPTELDWAI RGTNRSCSVCVSDQSDCANATNGDGYLCKC
SEGVDGNPYLKGNGGCTDI DECKEDPDCSTGSRCHNTEGYYYCKCRFPRRGDGKVNKGKC
HLPKYI VPTLATVCSVI SLTVLVCLYKRRKRRMFANNNGGRLLKDMNI VLI TEKDLNKM
KNRSTKI LGEFSFGKVMETHKNQPVAVKYSKGRKLAQTTHGKDI KCMNKNMFQNAFCW
SKVPSSPEEDSSSRVSGPELVDELRVOSLI OHENVRLDI AI GSAKALSYMHSLSLMHGDV
KPANI LLDDNLNPKVSDFGSSELI LKFKHVCVDKNYVDPVCI LTNKYTMESDVYSYGVVL
LELI TRKRAKYDDERSI RVEFVNQYKDNERRKMYDQDMLSSTDLSLYPYCMECLDRMAAV
AVRCLKNKVDKRPMTAEVVEELKQLREI STRMS*

>OsWAK123 6324.t00020, Chromosome 11, protein sequence
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GDDCAWPGPDDFNVTCHNSFSPRPYYGNI EI RDI SVAAGEMRVYTPVYQCYNTSDHVD
SSTSFLQLNI TDSPFLVAPGRNEFTAI GCDTLAWLQGRDDWSFLTGCI TTCVSLDEAAHD
GEQCSGLGCCQVPSI PPNLALVELNWGNLTKNYAWRYSPCSYAFVAEKAWYKFSRGDFSR
AGSKSFMNRAGDRSVTVLDWAI RSDGSCSSTRVAPACVSPNSYCVNTTNGQGYLCKCS
PGYDGNPYVTGDSGCTNI NECKLRREDPAKYSLEYPCYGGSKCHDTEGDYRCKRLGRRG
DGKI DNGCQPI I PPPVI GI LVI AGVVLFGVLVCLRKKWKLKGCYDRNGGOMLEKTSVKI
FTKQELDKI TNNKSNKI GKGAFGVYKGTHTDDQPVAVKYSI EKS SRTRGKDEFVKEI TV
QLQVSHDNLVCLI GCCLEVEVPMLVFEFVPNGSLESVLHGAERCALPLLKRLDI AI GSAK
ALTYMHSHSRRCI FHGDI KPANI LLDDNLMPKVSDFGSSESVLTKHRSVCADMGYI DPV
YMTGNFRLKSDVYSFGI VVLELI TRKKAVYDGKSLPI EFTNCYEDDNARRNMYDQDI LS
AEALQPHCMECLDRMAGI AVQCLEYNI DKRPTMAEALQELI QLRAKVAGK*

>OsWAK124 AK066290, Chromosome 12, protein sequence
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SFLPGFNLTCDRTKQPHRLFLGDGSHLOVTEI SLANYTVRVLNGVGTVNFTFAGHNDSTA
KWAGSVGQDDGPYI VSEHNQLVVTGCNI MASLLGNSGSNVI I GCSSFCSI TDWWGADP
I VHSGAGGACSGLGCCDVNI TI GRPSYELQLRWLDWDHNYDDLPI AVRI AERGWF DGMS
TKLLRKNRSRAVPVPVLEWAVASVHKPPTPVDVNSTCPKDPARSECRSSNSFCRNI ANM
YRSGYVCKCDDGYQGNPYLTGGCQDI DECSLPGKCFGECTNTPGNYSCRCPRGARGNPYT
KDGC I KFPLGPGQLQRKWI GAGWI CFGVSPNGPFSRLLGMLMRNQGRDGI TLNRNASDA
GAKRNVYL

>OsWAK125 1894.t00003, Chromosome 12, protein sequence
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NTI ALMGCNARVDLPGGDRHSDNLVSSCTAVCPPVGGGDDAAHDDGGDGGDGTI AI I D
AWNGKCSGVGCCQANI MLGYSYTI QI KQLEKNLHSDFOYI AYI TDET LNFTTEEI AGR
I ATPAALPATLDFVI RSNSCSTPANSTAGGECRSEHSFCEDYKGGGNTLLGYSCVCSSEG
YRGNPYVAGGCHLNC*

>OsWAK126 5650.t00002, Chromosome 12, protein sequence
MQEALVLAMKVI PSI I FLAVAVQDAASSGYSLSLPGCPDKCGNVSI PYPFGVGPSCAATS
I SSYFNLTCSNTFNPPRPMVGDSEALVEVTDI SLEHGEMRVLSPVYI CFTANTTTFTKFT
EGYELKHTPFLPSPSRNRFTVI GCNTLGLI GGYKGTVSHYVTGCYSYCESI NSTSDGAPC

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AGMGCCEAAI PTDLTAWGAMFEMNQSKVWSFNPCFYAMVSEVGWYSFQQKDLVGHLGFI D
DRAQRGAPVVADWAI RNGSCPEEGKGI PGDYACI SANSYCMDANNGPGYLCQCSKGYEGN
PYLLNGCODVDECALRKQDPKYEDMYPCRKGI CHNTPGGYLCCKLGKRS DGTNYGCRPL
RTTAEKVVI VQRKRHKKDKDEYFKONGGLKLYDEMRSRKVDI RI L TEKDI KKATDNYSE
DRV LGI GGHGMVYRGI LDDNKEVAI KSKVI NDEWREEFVNEI I I LSQI NHRNI VRLI GC
CLDVHVPMLVYEFVSNGTLSEFLHGTDRRSSI PLDI RLKI ATQSAEALAYLHSSTRAI L
HGDFKSANI LDDQHNAKVADFGASALKSMNESEFI MFVQGTGLGYLDPESEFI SHRLTDKS
DVYSFGVVLLELMTRKRAI YANSI NEKESLSYSFLLMFDQNI HRNMLDREI MDKETMVVL
EKLSI LAANCLRPGRDDRPTMKEVLECLQMI RRHPMHGASDHKGDSYAHHNYEGSPSMV
HLNETI YESI ETSRLVDDLVR*

>OsWAK127a AK100110, Chromosome 12, protein sequence
MKGI YCSHLAI SASSTSLAVSMLWYFI GSDGI RI DDPSYEQETLVGLDFETSCMWSLLNI
CRRSATSF I VGLSSPLGFRQCMASASFCSTTI TFSSI MSKSNI SQCLFWWNI KGKI

>OsWAK127b, AK066039,
MNQLI VNLKKLI SFTQSLWEDKDSLHI LQSI CTGAI PDGPVMDRNTSVGPPI DKPEV
PN EVLLPEAVPSGLHKHGV EAWVEFPHRALVHHQDRCEVLQVWDDGGLAAAHPSAGSTV
GCA VDALAVGVAASHI

>OsWAK128a AK067120, Chromosome 12, protein sequence
MRKLDPKYEELYPCKRGVCQNTPGSYI CKCKKGKSDGTGYGCQPADSPDYRMVVG
LSVS AI VVTAMACMLI MOLQRRRHKKKEKI EYFKONGGHRLYDEMI SROVDI RI L
TEREI KRAT ENYNEDRVLGSGGHGMVYRGT LDDNKEVAI KKSRI NDDCREEFVNEI I I
LSQI NHRNI V RLLGCCLD VDPMLVYEF AHNGTLSEFLHGTDRSPI PLDLRLKI ATQAA
EALAYLHSST SRTI LHGDVKSANI LMDDQYNKVA DFGASTLKSMDESEFI LFVQGT
MGYLDPESEFTSHO LTERSDVYSFGVVLLELLTRKKALYTNDFNKNESVVI SVDVSAEQ
TPSHARP

>OsWAK128b, AK064574,
MAHAQLLVFLI PMALFLKLAMPVDGAMAMPGCPDKCGNVAI PYPFGI GENCSATNL
NSYF NLMCNDFTHPPRPQI REPEAHI EVTGI SLERGEMRVLSPVNI CFTSNTTSTK
SSGVGYD LSRTPLPSPSRNRTVI GCNTLGLI TGYRGASQYVTGCYSYCEGI NSTSDG
APCAGMG CCEASI PANLTAFAVTFDLNHSKVTFNPCFYSVVAEVGWYNFKKQDLVGH
LGF I KERAQ NGVPI VADWAI RNGSCP KKEKEPSSYACVSANSYCTAVI NSPGYLCN
CSQGYGPNPYLS DGCQSAI TQI YLNFVTY

>OsWAK129a AK119448, Chromosome 12, protein sequence
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GYEG NPYLLNGCODVDECALRKQDPKYEDI YPCRKGVCHNTPGGYLCCKLGKRS DGT
NYGCRP LRTTAEQVVI GTSVSAI ALMALTCVLAMQI QRKRHKKDKDEYFKONGGLK
LYDEMRSRKV DTI RI L TEKDI KKATDNYSEDRV LGI GGHGMVYRGT LDDNKEVAI
KSKVI NDEWREEFV NEI I I LSQI NHRNI VRLI GCCLDVHVPMLVYEFVSNGTL
SEFLHGTDRSPI PLDI RLKI ATQSAEALAYLHSSTRTI LHGDVKSANI LLDGQHN
AKVADFGASALKSMNESEFI MFVQ GTLGYLDPESEFI SHCLTDKSDVYSFGVVLLE
LMTRKRAI FANSI NEKESLSYSFLLMFDQ NI HRNMLDREI MDKETMVVLEKLSI
LAANCLRPGRDDRPTMKEVAECLQMI RRHPMHAAS DHKGDSSAHHNYEGSSSPSMA
HFD E TI YKSI EASRLVQDLVR

>OsWAK129b, AK062773,
MHAFCLCLQTWMSAHYVSRI PSMKI YI LAGKESATTHQEDI YANAS

>OsWAK129c, AK119304,
MLSVI SSI TLLTVI SSKWMTTDGPPNLPWMSRLVA AVSRSLAALDRRRKKSQTPFLQ
GY I SSYLGSLRNAHSSTSED RDKKHAFRSQTKLV