

>A0A1D6DH46 (*Triticum aestivum*) 379

MCGGAPLADVKVPTVTRKMTKATLWHEKKPRHGGSGRHTGLGGRRGPGLDDNEEDFEADSGDSDELELERTMVDE
KDDDEVVEIKSFAAVKRSLSQGFDGPSAKRKRNQFRGIRQRPWGKWAEEIRDPSKGARVWLGTNFNSAEEAARAYD
VEARRIRGNKAKVNFPKESTVPQKRRRAPAQNPKLSVAQEPMPSINNLANPNAFIYPSATFASNQPLALPDNM
SFVPARNSTAPVEAFVMNPYSHQGSNSFGCSDLEWDYDTKTPDIPSIPISTIAEGAELAQSNAYNSVVITEAAE
SALAQSNTNHSVPHVIENNDVDFAEWTRFLMDDGVDEPIDSLLNFNVPQDVVNVMDLWSFDDMPMCGEFL

>A0A1D6D7Z2 (*Triticum aestivum*) 324

MCGGAPLADVKVPTVTRRMTKEALWPEKKPRHGGSGQRVMGLGGRRGPGLDDNEEDFEADSGDSLDLERSMVDE
KDGDEVSEIKSFAAVKSSLSSQGFDGPSAKRKRNQFRGIRQRPWGKWAEEIRDPSKGARVWLGTNFNSAEEAARAYD
VEARRIRGNKAKVNFPKEPTVPQKRRRAPAQNPKQSVAHESPMSSINNLANPNAFIYPSADFASNQPLALPDNV
SFVPAMNFVAPVEAFVMNPYSDQGSNSFGCSLDWDYDTKTPDIPSIPISTIAEEAESALAQSNAYNSVVIAEASE
SALAQSNTYNSVPPRMENNDVDFAEWTRFLMDDSVDEPIDSLLNFNVPQDVVNVMDL

> A0A1D6AZV0 (*Triticum aestivum*) 385

MYGGASLADLEVPMVTQKVIEAILWPEKKPRLLGGSGDTRFMGLGRRGLLDDNKEDFKAEFFEEFEADSGESDL
GHSGVDEKDDNKEVIKIKPVAVKGQSLSQAKRKRNKFRGIRQRPWGKWAEEIRDPSKGVRVWLGTNFNSAEEAARA
YDVEARKIYGNKANVNFPPEEPTVPQKRRTRAAPKAPKLSASREPIVNNLANPNAFIYPSADFASNQPLALHEN
VPAMNSDAPVEASVMNLHSDQESNSFGYSNLGWNYDTKTPDIPSIPISTIAEAEASALAQSNAYNSVVIAERA
ALVQSNTYNSVPPSMENNDVDFVPWVRLMDDGVVESIDSLLNFDPREVGNGMDIWSSDGMPMCGNFSEGSKPFI

> A0A1D6BD13 (*Triticum aestivum*) 385

MYGGVSLADLEVPMVTRKVTEASLWHNKKNPRLLGGSGDMCFTGLGGRRGLLDDNKEDFEADFEFFEEFEADSRDSL
GLSGVDEKDDDEEVIEIKPVAAIKNQSLFQAKIKRKRNKFRGIRQRPWGKWAEEIRDPSKGVRV
YDVEARRIYGNKANVNFPPEEPTVPQKRRTRAAPKAPKLSASREPTAIPVNNLANPKAFVYPSADFALNQSLALHE
NMSFVPAMNSDAPVEASVMNLHSNQGSNSFGYSEMGWNYDTKTPDIPSIPISTIAEAEASALVQSNTYNSV
AESALVQSNTYNSVPPAMENNDVDIVALVRLMDDGVVEPIDSLLNFDPQDVVGNGMDIWSSDDMPMCGEFSEGS
KPCI

> A0A1D6AI85 (*Triticum aestivum*) 385

MYGGASLMDLEVSTVMRKVIEATLRPKKKTPRGSGDFEADYENFEADSGESDL
GVDEKDDDEEVIEIKPVAAVKRSLSQAKRKRNKFRGIRQRPWGKWAEEIRDPSKGVRV
WLGTFKSAAAARAYDVEARRIYGNKANVNFPPEEPTVPQKRRTRAAPKAPKLSASREPTAIPVNNLANPKAFVYPSAD
FASNQPLALHENVSFVPTMNSDGPVEASVMNLHSDQGSNSFGYSDLGWNYDTKTPDIPSIPISTIAEAEASALVQSNTY
NSTVPPAMENNDIDIVAWATLLMDDGVVKPIDSLLNFDPQDVSGNMDIWSSDDMPMCGEF
FV

> A0A1D6BK68 (*Triticum aestivum*) 340

MCGGRQLADAKVPAVTRKVMAATLWNEKKPRRSRGVGRHFTGLGGRRRLRLDDDKEDFD
AEFKEFEANSGDSDLELGPGGVAEKDEEEVVEIKPFATIKRPLSHDDSSTMSMTCFDGP

SERPAKRKRKNQFKGIRQRPLGKWAEEIRDPSKGVRVWLGTNFNSAEEAARAYDVQALRIH
GKKAKVNPFPEEPAVQEPKAPKPSATQEPTVTPAVNNPANTNAFMYPSADFASNQPLIQLD
NVPFVPTMNYVAPVEALAMNMYFGEGSNSFGWSDLGWEYDIKTPYISSMAPVSTIAEGAE
CAPVHSNTYNSMVPPVMENDVVDNMDLWNFDDMPICDEFF

> A0A1D6CP09 (*Triticum aestivum*) 359

MCGGRQLEDAEAPAVRKVMATTIWTEKKPRRSDGVGRHFTGLGGCGRLRLDDNEEDFD
AEFKEFEANSRDSMELGPAGVVEKDDEEVTEIKPFAAIKRSLSHDDLSIMSTNVFDGP
SERPAKRKRKNQFKGIRQRPSWKWAEEIRDPSKGVRVWLGTNFNSAEEAARAYDVEALRIH
GKKAKVNPFPEEPAVQEPKAPKPNAAQEPTVTPAVNNPANTNAFVYPSTDFASSQPLIQLD
NVPFVPTMKYVAPVEALAMNMYSGQGSNIFGWSDLGWEYDIKTPYISSMAPISTIAEGAE
STLVQSNTYNSVVIVEGAEFALVESNTYNSMVPLVMENDVVDNMDLWNFDDMPICDEFF

> W5H072 (*Triticum aestivum*) 398

MCGGAILKDLKVPAPTRKVTAAVLWPEKNPKRADGVARRLAGLGRRGGLGLDDGDVDFE
ADFEFEADSGDSVELGRAGVAGKDGHDVVVEIKPLFAVKRSLSQDDLSTMATTAGFDGP
AQSAKRKRNEFRGIRQRPGKWAEEIRDPSKGVRVWLGTNFNSAEEAARAYDVEARRIR
GKKAKVNPFPEELTVHQKRRACPAAPKVKSSAAQEPTVIPAVNNLANPNAFVYPADFAS
KQLVQPDNVPYVPAINSAAPVEAPVMNMSDQGSNSFGCSDLGWEYDTKTPDISSIAPI
STIAEGTESALLQSNTYNPAVIAEGAESALVQSNTYNSVPPVMENNAVDFEPMRFLVD
DGVDEPIDSLLNFDPQDVGNMDLWSFDDMPICGEIF

> W5GAN0 (*Triticum aestivum*) 398

MCGGAILKDLKVPAPARKVTAAVLWPEKNPKRADGGWRLAGLGRRGGRGLDDGEEDFQ
ADFEFEADSGDSVELGRAGVAGKDGDEVVEIKPFAAVKRSLSQDDLSTMATTAGFDGP
AQSAKRKRNEFRGIRQRPGKWAEEIRDPSKGVRVWLGTNFNSAEEAARAYDVEARRIR
GKKAKVNPFPEEPTVPQKRRACPAAPKVKSSAAQEPTVIPAVNNLANPNAFVYPADFAS
KQLVQPDNMPFVPAINSASAASVEAPVMNMSDQGSNSFGCSDLGWEYDTKTPDISSIAPI
STIAEGTESAVLQSNTYNPAVIAEGAESAPVQSNTYNSVPPVMENNAVDFEPMRFLLD
DGVDEPIDSLLNFDPQDVGNMDLWSFDDMPICGKIF

> A0A1D6S8W8 (*Triticum aestivum*) 398

MCGGAILKGLKVPAPARKVTAAVLWPEKNPKRADGGARHLAGLGRRGGLGLDDGEADFE
ADFEFEADSGDSQELGRGGVAEKDGDEVETKPFAAVKRSLSQDDLSTMATTAGFDGP
AQSAKRKRNEFRGIRQRPGKWAEEIRDPSKGVRVWLGTNFNSAEEAARAYDVEARRIR
GKKAKVNPFPEEPTVPQKRRACPAAPKVKSSAAQEPTVIPAVNNLANPNAFVYPADFAS
KQLVQPDNVPFVPAINSAAPVEAPVMNMSDQGSNSFGCSDLGWEYDTKTPDISSIAPI
STIAEGAETALLQSNTYNPAVIAEGAESAPVQTNTYNSVPPVMENNAVDFEPMRFLD
DGVDEPIDSLLNFDPQDVGNMDLWSFDDMPICGEIF

> A0A1D6ATH9 (*Triticum aestivum*) 408

MENHYEGLEVEGDSDELARDGVADKDNNHKVVEIKPLAAVRMSLSKGRGDDYEKILVK
MSQVCSTILTTLKLPTVMRRVVEAVLWPDKKKPWWCGGSRGFMGLGGLVELGFDNDDV

GLKANFKEELDDLSTMFTDFGPAQRSAKRKS KNQFMGIRQRSRARWGAEIRDPIKGVR
LGTFSNSAEEAARAYNVEARRIHGKAKINFPEEPKLQPKSRAAPPASPKVPKPSAAQEHSF
IPAFNNLVNQNAFVYPSAHFASKQQLVQPENVPFVPPMSTIAPVEAPVMNMYSDRGSNSF
GFSKLGWKYHTKTPDISSIAPISTIAEGAEPVLVENNTYNSLVPVMENNVNFEPWMRY
LMDDSVDEMIDSLLNFDPVPRDVSNRTFGASMPCPSVANFSEGSKPCI

> A0A1D6CLS2 (*Triticum aestivum*) 331

MCGRALLADVKPVVTRKVMETVWPEKKKHRRGGGGRRFTGHSGHGRGLELYNEEDFE
ADFEKFKA
DSR
DYDLDLGHGGVAEKDDDEVEIKPLAVAKRSLSHDDLSTMPTASFDGP
SERPAKRKRKNQINVIRRPLGKWA
AEIRDPSKGVRWLGT
FNSAKKA
ARAYDAEAHKIR
GKAEVN
FPEEPTGSADFAS
NQPPV
PAMNSA
APIEV
PVMDI
YSDQGSNS
FCCSN
LWEYD
TKSL
DISSIAP
ISTIA
EGA
KSAV
VKN
NTYNSL
VPL
FMENN
AIN
FEP
WMRY
LMDD
SVDELI
DSLL
NFDP
VGN
MDLWS
FDD
MPIC
GKFF

> Q84LJ6 (*Triticum aestivum*) 355

MCGGAILSDII
IPPPR
ATGGNV
WRADKK
RARP
DAAAGR
P
RRA
PEEEF
QEEE
GDAE
FEAD
FEGF
VEA
EEE
SDGE
AKP
FPV
RRSG
FSGD
GLK
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> Q7XY26 (*Triticum aestivum*) 355

MCGGAILSDII
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> Q84LJ7 (*Triticum aestivum*) 332

MCGGRHPLRH
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> Q2TN80 (*Triticum aestivum*) 355

MCGGAILSDII
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WGKWAEEIRDPRKGVRVWLGTYNAAEAAARAYDVEARRIRGKKAKVNFPPEAPMDPQQRC
ATSVKVPFNTEQKPVLNTMGNTDVYSCPAVDYTINQQFVQPQNMFSVPTVNAVEAPFMN
FSSDQGSNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNESAFLQNNGINSTVPPVMGD
ANVLDADLEPYMKFLMDDGSDESIDSILSCDVPQDVVGNGLWTFFDDMPLSAGFY

> TaERF6 (*Triticum aestivum*) 353

MCGGAILSDIIIPPPRATGGNVWRADKKRARA
DAAAGRPRRAPEEFEEE
GDAEFEADFE
GFVEAEEESDGEGKPF
PVRRSGFSGDGLKATAAGDD
CASGS
AKRKRNQFRGIRRRPWG
KWAAEIRDPRKGVRVWLGTYN
AAEAAARAYDVEARRIRGKKAKVN
FPPEAPMAPQQRCAT
SVKVP
EFNTEQKPVLNTMGNAD
VYSCPAVDYTINQQFVQP
QNMFSVPTVNAVEAPFMN
SDQGSNSFSCDF
SWENDIKTPDITSV
PASIPTSTEV
NESAFLQNNGINSTV
PPVMGD
ANVLDADLEPYMKFL
MDDGSDESIDS
ILSCDVPQDV
VGNGLWTFFDD
MPLSAGFY

> A0A1D6D258 (*Triticum aestivum*) 353

MRATHPAPQQRKARSPSSSSHTH
QHHTNRPVSSRKRT
TLSFRLALPAV
PRA
PAPAAMC
GGAILSDIIIPPPRATGGNVWRADKKRARA
DAAAGRPRRAPEEFEEE
GDAEFEADFE
GFVEAEEESDGEGKPF
PVRRSGFSGDGLKATAAGDD
CASGS
AKRKRNQFRGIRRRPWG
KWAAEIRDPRKGVRVWLGTYN
AAEAAARAYDVEARRIRGKKAKVN
FPPEAPMAPQQRCAT
AVKV
EFNTEQKPVLNTMGNAD
VYSCSA
VDYTINQQFVQP
QNMFSVPTVNAVEAPFMN
SDQGSNSFSCDF
SWENDIKTPDITSV
LASIPTSTEV
NESAFLQNNGINSTV
PPVMGD
ANVLDADLEPYMKFL
MDDGSDESIDS
ILSCDVPQDV
VGNGLWTFFDD
MPLSAGFY

> Q8H0K1 (*Triticum aestivum*) 349

MCGGAILSDIIIPPPR
PAGGRLWQADRKKRAGP
RVP
EEE
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EVKPF
PARRSGF
SGDGLKATA
AGEYDC
CASGS
AKRKRNQFRG
IRRRPW
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> A0A1D5YG50 (*Triticum aestivum*) 377

MCGGAILAGFIPPS
AAAKAAKKQQRS
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> A0A1D5ZP39 (*Triticum aestivum*) 381

MCGGAILAGFIPPSAAAAAKAAKKQQQRSVTADSLWPGLRKKAEEEDFEADFRDF
ERDSSDDDAVEEVPPPPASAGFAFAAAAEVAPPAPARLDQVHDGPAAKQVKVRKNQY
RGIRQRPWGKAAEIRDPSKGVRWLGYDTAEEAARAYDAEARKIRGKKAKVNFPEDAP
TVQKSTLKPTAAKSAKLAPPKACEDEPFNHLRGNDLFAMFAFNDKKVPAKPAESVDS
LLPVKPLVPTETFGMNMLSDQSSNSFGSTDGFWDDEVMTPDYTSVFPNAAMPAYGEPA
YLQGGAPKRMNNFGVAVLQPQNGAQDIPAFDHEMKYSLPYVESSSDGSMDSLNGAMQ
DGASSGDLWSDLDELMAAGGY

> K4GPS6 (*Triticum aestivum*) 386

MCGGAILAGFIPPSAAAAAKAAKKQQQQQQQQRSVTADSLWPGLRKPAEEEDFEA
DFRDFERDSNDDDAVEEVPPPPATAGFAFAAAAVALPAPTRLDQHDPAAKSVKRV
RKNQYRGIRQRPWGKAAEIRDPSKGVRWLGYDTAEEAARAYDAEARKIRGKKAKVN
PEEAPTVQKSTLKPTAVKSAKLAPPKTCEDEPFNHLRGNDLFAMFAFNDKKVSAKPA
ESVDSLPPVPLVPTETFGMNMLSDQSSNSFGSTDGFWDDEAMTPDYTSVFPNAAMPA
YGEPAYLQGGAPKRMNNFGVAVLQPQNGAQDIPAFDHEMKYSLPYVESSSDGSMDSL
NGAMQDGASSGDLWSDLDELMAAGGY

> K4GQ15 (*Triticum aestivum*) 383

MCGGAILAGFIPPSAAAAAKAAKKQQQQQQRSVTADSLWPGLRKPAEEEDFEADFR
DFERDSNDDDAVEEVPPPPATAGFAFAAAAVALPAPTRLDQHDPAAKSVKRV
QYRGIRQRPWGKAAEIRDPSKGVRWLGYDTAEEAARAYDAEARKIRGKKAKVNFP
EEAPTVQKSTLKPTAVKSAKLAPPKTCEDEPFNHLRGNDLFAMFAFNDKKVSAKPAESV
DSLPPVPLVPTETFGMNMLSDQSSNSFGSTDGFWDDEAMTPDYTSVFPNAAMPAYGE
PAYLQGGAPKRMNNFGVAVLQPQNGAQDIPAFDHEMKYSLPHVESSSDGSMDSL
NGAMQDGASSGDFWSDLDELMAAGGY

> A0A068EGL7 (*Triticum turgidum*) 354

MCGGAILSDIIPPPRRATGGNWRADKKRARADAAGRPRRAPEEEFEEEGDAEFEAD
EGFVEAEEESEDGEGKPFVRRSGFDGLKATAAGDDDCASGSAKRKRNQFRGIRRRP
GWKAAEIRDPRKGVRWLGYNSAEAAARAYDVEARRIRGKKAKVNFP
EEAPMAPQQRCA
TSVKVPEFNTEQKPVLMNTMGNADVSCPAPDVTINQQFVQPQNM
SFVPTVNAVEAPFMNF
SSDQGSNSFSCDFSWENDIKTPDITSVLA
SIPTSTEVNEAFLQNNGINSTVPPVMGDA
NVLDLADLEPYMKFLMDDGSDESIDSILCDVPQDVGNMGLWT
FDDMPLSAGFY

> A0A068EKH9 (*Triticum turgidum*) 355

MCGGAILSDIIPPPRRATGGNWRADKKRARPDAAAGRPRRV
PEEEFQEEEGDAEFEAD
FEGFVEAEEESEDG
EAKPFVRRTGFDGLKATAAGDDDCASGS
AKRKNSQFRGIRRRP

WGKWAEEIRDPRKGVRVWLGTYNAAEAARAYDVEARRIRGKKAKVNFPPEEAPMAPQQRC
ATSVKVPFNTEQKPVLNTMGNADVYSCPADVTLNQQFVQPQNMFSVPTVNAVEAPFMN
FSSDQGSNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNESAFLQNNGINSTVPPVMGD
ANVDLADLEPYMKFLMDDGSDESIDSILSCDVLQDVIGNMGLWTFFDDMPLSAGFY

>**T1NAC4** (*Triticum urartu*) 394

MCGGASLADVKVPTVTRKVKKTALWPEKKPRCGSGDRRTGLGEHGGVDLDDNKDYEA
DFKEFEANSGSDLELGRSTVDEKDDDEAVEIKPFVAVKRSLSQGIRPGTMFTAGFDGTS
AKRKRKNQFRGIRQRPWGKAVEIRDPSKGARVWLGTNSAEEAARAYDVEAHRIRGNKS
KVNFKEPTVVPQERRAPTLKAPKLCVAQEHSVMPSVNNLANPNASVYPFTDFASNQPL
DLPDNVSFVPTMNSTSLEAFIMLYSDQGSNSFGCSLDYYDTKTPDIPISTIV
EGAESTLVQGNTYNPVIAEGAKSALAQSNTYNSMVPVRENKDVDFAELTRFLMDGMD
EPIDSLLNFYVPRDVGNMDLWSFDDMPMC GKIF

>**M7ZS74** (*Triticum urartu*) 394

MYGGASLMDEISTVTRKVTEATLRPKKTPRGSGDFEADYENFEADYGDSDLGH
GVDEKDDDEEVIEIKPVAAVKRRLSQAKRKRNKFREGIRQRPWGKWAEEIRDPSKGVRV
WLGTFKSAEEAARAYDVEARRIYGNKANVNPFEEPTVPKRRTRCPAPKAPKLASWEPT
AIPVVNNLANPNPFWVYPSANFASNQPLALHENVSFVPTMNSDGPVEASVMNLHSDQGSNS
FGYSDLGWNYDTKTPDISSTPISTIADGVESALVQSNPYNSVIAEGAESAALVQSNTY
NSTVPPAMENNGIDIVAWATLLMDGVVEPIDSSLNFDPQDVSGNMDIGSSEDMTMCGE
FV

> **M7YUE1** (*Triticum urartu*) 369

MCGGAILKDLKVPAPARRGGRLDDGEEDFQADFEFFEADSGDSVELGRAGVAGKDGD
EVVEIKPFAAVKRSLSQDDLSTMTTAGFDGPAQRSAKKRKNEFRGIRQRPWGKWAEEIR
DPSKGVRVWLGTNSAEEAARAYDVEARRIRGKKAKVNFPPEEPTVPKRRACPAAPKVPK
SSVAQEPTVPIAVNNLANPNAFVYPSADFASKQPLVQPDNMPFVPAINSAAASVEAPVMNM
YSDQGSNSFGCSDLGWEYDTKTPDISSIAPISTIAEGTESAVLQSKTYNPVIAEGAESA
PVQSNTYNSVPPVMENNADFEPWMRFLLDGVDPISSLNFDPQDVVGNDLWSFD
DMPICGKIF

> **T1MVQ2** (*Triticum urartu*) 305

MENHYEEFEVSGDSDELGRDGVADKDNNHKVVEIKSLAAVRMSLSKDDLSTMNTNDVD
GSAQRSAKRKSKNQFMGIRQRSRARWGAIEIRDPIKGVRWLGTNSAEEAARAYDVEARR
IHGKKAKINFPEEPKLPQKSRAAPPASPCKVPKPSAAQEHSFIPAFNNLVNQNAFVHP
ASKQPLVQDENVPFVPMSTICPVEAPVMNMYSDQGSNSFGSKLGWKYHTKTPDISSIA

PISTIAEGAEPVLVKNNTYNSLAPPIMENNVNFEPMRMLDDSVDEMIDSLLNFDVPR
DVISN

> M7ZUV6 (*Triticum urartu*) 313

MAVEAAVAGRGSRGGSYRKAVKRSQRGGYGQKINRLIFISLLHSDGLKATAAGDDDCAS
GSAKRKRKNQFRGIRRRPWGKWAEEIRDPRKGVRWLGTYNSAEEAARAYDVEARRIRGK
KAKVNFPEEAPMAPQQRCATSVKPEFNTEQKPVLNTMGHADVYSCPAVDYTINQQFVQP
QNMSFVPTVNAVEAPFMNFSSDQGSNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNES
AFLQNNGINSTVPPVMGDANVDLADLEPYMKFLMDDGSDESIDSILSCDVPQDVVGNMGL
WTFDDMPLSAGFY

> A0A068EE87 (*Triticum turgidum*) 355

MCGGAILSDIIIPPPRATGGNVWRADKKRARADAAGRPRRVPEEEFQEEEGDAEFEAD
FEGFVEAEEEEDGEAKPFPVVRTGFSGDGLKATAAGDDDCASGSAKRKRKSQFRGIRRRP
WGKWAEEIRDPRKGVRWLGTYNSAEEAARAYDVEARRIRGKKAKVNFPEEAPMAPQQRC
ATSVKPEFNTEQKPVLNTMGNAADVYPCPAVDYTINQQFVQPQNMMSFVPTVNAVEASF
FMNFSSDQGNNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNESAFLQNNGINSTVPPVMGD
ANVDLADLEPYMKFLMDDGSDESIDSILSCDVPQDVVGNMGLWTFDDMPLSAGFY

> A0A068EFX0 (*Triticum turgidum*) 354

MCGGAILSDIIIPPPRATGGNVWRADKKRARADAAGRPRRAPEEEFEEEGDAEFEADF
EGFVEAEEEEDGEKPFVVRTGFSGDGLKATAAGDDDCASGSAKRKRKNQFRGIRRRP
GWKWAEEIRDPRKGVRWLGTYNSAEEAARAYDVEARRIRGKKAKVNFPEEAPMAPQQRC
TSVKPEFNTEQKPVLNTMGNAADVYSCPAVDYTINQQFVQPQNMMSFVPTVNAVEAPFMNF
SSDQGSNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNESAFLQNNGINSTVPPVMGD
ANVDLADLEPYMKFLMDDGSDESIDSILSCDVLQDVIGNMGLWTFDDMPLSAGFY

> C5Z5Y3 (*Sorghum bicolor*) 358

MCGGAILSDIIIPPPRVTAGHLWPESKKP芮GAGAGRRRAGPPVEEEEEEDFEADFEV
FEVESGESELESEDEAKPFAAPRTSALPRDGLNTSAVVVDGPAANSVKRKRKNQFRGIR
RRPWGKWAEEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFDEVSTIPQ
KHAGPTPLKPEMDFEEKPIIKPAVNNMTNSNAYHYPVVDHNIEPEPFMHTQNMSFAPFV
NSAAPIQEPMVNLSSDQGSNSFSCSDFSLENDTRTPDITSVVVGESAFVQNTGPAVVPP
MGNASVDLTELDPMFLMDSGSEDSINTLLSCDGSQDVVSNMDLWSFDDMPMSAGFY

> A0A1B6QCP0 (*Sorghum bicolor*) 390

MCGGAILSGFIPPSGVAAAAAAKKKQQQGRRTADLLWPGPGKGALPQEEDDFEADF
REFERGLSEDDDVGDAGEGGDDEVQELAPPVRFAFAAAKAPRAVDGVMTPKDVQGD
RPTANSVKRNKRKNQYRGIRQRPWGKWAEEIRDPSKGVRVWLGYNTAEEARAYDAEARK
IRGKKAKVNFPDEVPGAQKSTAKPTDSNATKLAPPKACADEVFSNLNNNDNNDLFAMFAF
NDNKVPVKPAEVASFLPAVKPLVSKRSATNMLSDQNSNSYGSDFGWDDDTMTSGYTF
PNNAIPASYMQGGESKMRNNYGVAMFQGNGAPSLAQVMPGFPEMNYQQLPYVESSSD
ASMDSLPQDGASNGDIWSLDELLMAAGAY

> C5XTP7 (*Sorghum bicolor*) 368

MCGGAILDDLREPELRRVTDRDIWQKKPKRGGGGRRSFAAEDHEDFEADFADFEADSG
DSDLELGEGADDVVEIKPFAAKGTFSGDGLSTMADYDAPVARSAKRKRKNQYRGIRK
RPWGKWAEEIRDPSKGVRVWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDAPAVGQKR
RSGSASAKPKSSVEQKPVVKAPMTNLANTNASFYQSVNYPNSNNPFVQHANMPFVPAMNF
TASVEDPIMNLHSDQGSNSFGCSDLAWENDTKPDITSIAPISTIAEGDESAFVNSNSD
SMLPPVLENSAVDFTDGLTDLESYMRFLLDGGASDSVDSLNLNLDGSQDVGSNMDLWSFDD
MPIAGDFF

> M8B834 (*Aegilops tauschii*) 375

MCGGAPLADVVKVPTVTRKMTKATLWHEKKPRHGGSGGRHFTGLGGRRGPGLDDNEEDFE
ADSGDSDLELERTMVDEKDDDEVVEIKSFAAVKRSLSQGFDGPSAKRKRKNQFRGIRQR
PWGKWAEEIRDPSKGARVWLGTFSNSAAAARAYDVEARRIRGNKAKVNFPKESTVPQKRR
ARPAAPNAPKLSVAQEPEVMPSSINNLANPNAFIYPSATFASNQPLALPDNMSFVPAMNST
APVEAFVMNPYSHQGSNSFGCSDLWEWDYDTKTPDIPSIAPISTIAEGAEFALAQSNA
VVITEAAESALAQSNTHNSVVPVHIEENNDVDFEAWTRMSLSTWTSGASMTCPVANFYEG
FTHVYRDKRNKTMDG

> XP_020195166.1 (*Aegilops tauschii*) 388

MCGGAPLADVVKVPTVTRKMTKATLWHEKKPRHGGSGGRHFTGLGGRRGPGLDDNEEDFEADSGDSDLE
ERTMVDEKDDDEVVEIKSFAAVKRSLSQDDLMTTAGFDGPSAKRKRKNQFRGIRQRPWGKWAEEIRD
PSKGARVWLGTFSNSAAAARAYDVEARRIRGNKAKVNFPKESTVPQKRRARPAA
PNAPKLSVAQEPEVMPSSINNLANPNAFIYPSATFASNQPLALPDNMSFVPAMNST
APVEAFVMNPYSHQGSNSFGCSDLWEWDYDTKTPDIPSIAPISTIAEGAEFALAQS
NAVVITEAAESALAQSNTHNSVVPVHIEENNDVDFEAWTRFLMD
DGVDEPIDSLNNFNVPQDVVNNMDLWSFDDMPMCGEFL

> NIR3R2 (*Aegilops tauschii*) 410

MCGGAPLADVVKVPTVTRKVTKAALWPEKKPRHGSNEGRRFTGLGGRRGHGVDDNEEDFE
AEMEDFEVESEGDSDVELRRTRVDEKDDHNEVVEIKSFAAKSSLSQLVIDYRTKRLCDWFG
KDDLSTMATTAGFDGSSAKRKRKSQFRGIRQRPWGKWAEEIRDPSKGARVWLGTFSNSAAA
ARAYDVEARRIRGNKAKVNFPKELIIPQKRRARPAAPKSPKLSVAPEPSVMP
SVNNLANP

NAFIYPSANFASNQPLALPDNLSFHAMNSDGPVEASVMNSYSDQGINSFSFSDEWDYD
TKNPDIPIAPISTITEGAESALAQSNAVNVIAGGAESALAQSNTNNLVVPHVMENND
VDFEAWTRFLIYDGVDEPIDSLLNFDVPRDVIGNMDLWSFDDMPMCGEFF

>P7WEF7 (*Aegilops tauschii*) 389

MYGGVSLADLEVPVMTRKVTEARLWHNKKNPRLGGSGDMRFTGLGGRRGLGLDDNKEDFE
ADFEFEADSRSDLGLSGVDEKDDDEEVIEIKPVAAIKNRSLFQAKIKRKKNKFRGIR
QRPGWKWAAEIRDPSKGVRVWLGTNFNSAEAAARAYDVEAHRIYGNKANVNFPPEIPVQK
RRTRRAAPKAPKLSASREPTAIPVVNNLANPKAFVYPSADFASQNQLALHENLSFVPAMN
SDAPVEASVMNLHSNQGSNSFGYSEMGWNYDTKTPDISSTAPISTIADGVESALVQSNPY
NSVVTAEAEASAALVQSNTYNSVPPAMENNVDIVALVRLLMDDGVVEPIDSLLNFDVP
QDVVGNDIWSDDMPMCGEFFEGSKPCI

> R7W6S9 (*Aegilops tauschii*) 359

MCGGRQLEDAEAPAVRKVMATTLWTEKKPDRSDGVGRHFTGLGGCGRLRLDDNEEDFD
AEFKEFEANSGDSDMELPGGGVVEKDDEEFVTEIKPFAAIKRSLSHDDLSIMSTNVFDGP
SERPAKRKRKNQFKGIRQRPSGWKAAEIRDPSKGVRVWLGTNFNSAEAAARAYDVEALRIH
GKAKVNFPPEEPAVQEPKAPKPNAAQEPTVTPAVNNPANTNAFVYPSTDASSQPLIQLD
NVPFVPTMKYVAPVEALAMNMYSGQGSNIFGWSDLGWEYDIKTPYISSMAPISTIAEGAE
STLVQSNTYNSVIVVEGAEFALVESNTYNSMVPLVMENDVVDNMDLWNFDDMPICDEFF

> M8B9E4 (*Aegilops tauschii*) 398

MCGGAILKDLKVPAPTRKVTAAVLWPEKNPKRADGVARRLAGLGRGGGLGLDDGDVDFE
ADFEFEADSGSDVELGRAGVAGKDGHVVVEIKPLFAVKRSLSQDDLSTMFTAGFDGP
AQRSAKRKRKNQFRGIRQRPGWKAAEIRDPSKGVRVWLGTNFNSAEAAARAYDVEARRIR
GKAKVNFPPEELTVHQKRRACPAKPVKSSAAQEPTVTPAVNNLANPNAFVYPSADFAS
KQPLVQPDNVPYVPAINSAAPVEAPVMNMYSDQGSNSFGCSDLGWEYDTKTPDISSIAPI
STIAEGTESALLQSNTYNPaviaEAEASALVQSNTYNSVPPVMENNAVDFEPWMRFLVD
DGVDEPIDSLLNFDVPQDVVGNDLWSFDDMPICGEIF

> M8D7G5 (*Aegilops tauschii*) 392

MLRGGRRAWGQAWLRHDEAFKAEEFDADSGYFDLDCGHGVTRRVVEALLWPEKKKPR
QRGGRSRCFVGLDGLGVKLGFDMTRPSRPNLRTSTPTQVVLKHYFDDLSTRASAGFDG
HTHMPAKRKRKNQFRGIRQRPGWKAAEIRDPIKGARVWLGTFDSEAEEAAARAYDVEARRI
RGKKARLNFPDEPTIPQKCHALHVIPKVPKPSTTQEHSFIPAVNNLANRNDVYPSAYST
SSQPLVQLDNMFPVPMGSVTPVEVPAMNMYDRRSNTFGCSMLGREYYTKTPNISSIAP
ISTIAEGEGSAPIKSNTSNSVVLPMENNGVNLEPWMRYLMDDSVDELINSLLNFDVPRD
VVGNDMFVASMTCPMSMVNFERTKPYISGKRE

>I1IFK4 (*Brachypodium distachyon*) 394

MCGGAILTDLKRPPAVSRRLAEGLLWPEKKVKCWKGEEDDFEADFGGEVVDDEDLEFGGE
EEEAGDDDVEIKPPPVKRAFTGDDLSTMFTAADFPAERSAKRKRKNQFRGIRQRPWGK
WAAEIRDPNKGVRVWLGTFSNSEEAARAYDAEARRIRGNKAKVNFPPEEPRAAQKRRAGPA
AAKVPKSRVEQKPNVKPAVNNLANTNASAYPSADFASNKPVQPDNKPFVQSDDLSFFQP
DDLDFVQPDDMPFVPAMNSAVPIGAPCMNLYSQGSNSFGCSDLGWDCDTKTPDTTSVAP
ISTIVEGFYAVVKGNTQDSVPPVMETNTVDHTNVLETNPVDPTSGLADLEPLLKFLLE
EDAGESIDSFLNLDSEQDVNGLWSFDDLISSDFY

> I1H041 (*Brachypodium distachyon*) 351

MCGGAILSDIIIPPRRTDGHLWPAEKRGKGVGGGRPRRVPEEEFEEEEFEAGFEGFEE
ELGEVEVGFDEIKPSLASRNNGSAGDGLNATSAGADGRASGSSKRKRKNQFRGIRRRPWG
KWAEEIRDPRKGVRVWLGTYNSSEEAARAYDAEARRIRGKAKVNFPPEAPVTSQRHAEP
TFVKVSEFNTEEKPIVNTMGNTNAHSYPVVDYSLHEPFLQPQNMSFMPVMNAVEAPFMNL
SSDQGSNSFSCSDFSWENDIKTPDITSVLAISIPTSTEVDESAFLQNNANNAALPPVMGNA
NVDIADLEPYMKFLMDSGSDESIDSMLSCDGSPDAVDLWTFDDMPMSAGFY

>A0A287UXT6 (*Hordeum vulgare*) 369

MCGGAILKDLKVPAVTRKVTEAALWPEKKPRQADGGARRLGLVDGEEDFEADFEFFEA
SGSDSLELGRGAAEKDDDEVVEIKPYAAVKRPLSQDDFSIITAGCDGPAQRSAKRKR
NQFRGIRQRPWGKWAEEIRDPSKGVRVWLGTFSNSEEAARAYDVEARRIRGKAKVNFP
EPTVPQKRRVRPAPLKAPKLSASQEPTVIPAVNNLANPNAFVYPSADFASNQPPVQPDNV
PFVPAMKFAAPVEAPVMNMYSDQGSNSFGCSDLGWDYETKTPDISSVAPISTVAEGAESA
LIQSNTYNSVPPVMENNNAVDFEPEPWTRFLMDDGVDEPIDSLNFDPQDVVSNMDLWSFG
DMPICGEFF

>M0XA37 (*Hordeum vulgare*) 374

MCGPLTHKNVDVPPVTRKVMAATFWPEKKPRQTDGRGRHFLGLGGLRGLGLDEKEEDFE
ADFKEFEVNFGDSDLELGHNGVIGKDDHEDVVEIKPFVVIKGFLSQDDLSTMSTAGPSER
PAKRKRKNQFRGTRQRPWGKWAEEIRDPSKGVRWLGTFRSAEEAARAYDVAARRIHGKK
AKVNFPPEEPAVEEPTVIPALNNLANPNAFVYPSVDFASNQPLVQIANMPFVPAMNFVAPV
QAPAMNMYSDQGSNTFGCSDLGRQYTIKTPDMSSIIAPVSTIAEGAESARVQSNTYNP
IAEAAAESALVQSNTYNSVVP SIMESDSVDFDAWTRFLMDDDVDEPIDSLVNFDVLQDV
LG NMDLWNFDDMPICG

> M0UDG0 (*Hordeum vulgare*) 320

MENDYKEFEFDGDSDELGRDVAEEDNNDEVDEIMSFVAIKRSLSKDDLSTMSSAGFH
DRPAQRSAKRKRKNQFRGIRQRPWGKAAEIRDPIKGFRVWLGTNFNSAEEAARAYDVEAR
RIRGKKAKLNFPMEPPTVPQKHHAPPVVPKVRSTTKEHSFVPAINNLANKNASVYPSAD
FASKHPLGQPGNMPFVPVMNSLAPVEAPVINMCSDRGSTSFGCSNLGWEYYTKTPHISAT
APISTIAEGDESLLVKGNTNNSVPPVMENDAANFEPWIRYLMDDTVDQLIDSLLNFDVP
RDVAANFSKGTKPCISEQRE

> **F2EG87** (*Hordeum vulgare*) 319

MENEWEEFQVNSTDSDLELGHDGLVEEDYNDDVVEIKPFVSISRSLSKDDLSTMPTAGFD
GPAQRSAKRKRKTHYRGIRQRPWGKAAEIRDPIKGFRVWLGTNFNSAEEAARAYDVAARR
IRGKKAKLNFPEDRTFAQKSHAPRAAPKVPKPSAPWEYSFVPAVNNLAKRNSFVYPSASF
ASKHPVVQRDHVSFPHAMSSVAPVEAPVTNIYSDRGTNNSFGCPDLCWDYHTKAPHISTT
RISTIAKGDSLHVKNNTNNLMVPHMENNAANFEPWMRYLMDNSVDEMIDSLLNFDVPQ
DAVGNISEGTEPSISGKRE

> F2CZK8 (*Hordeum vulgare*) 351

MCGGAILSDIIPPPRRAAGGRLWQADRKKRAGPDRVPEEEEEEAEEGDEDFEADFEGF
VDEESDGEVKPFPARRSGFSGDGLKATAAGEYDCASGSAKRKRKNQFRGIRRRPWGKWA
EIRDPRKGVRVWLGTYNAAEAARAYDVEARRIRGKKAKVNFPPEAPMASQRCPEPTAV
KVPEFNTEQKPVLNTMGNADVYSCAADYTLNQQFVQPQNMSFVPTMNAVEAPFMNFSSD
QGSNSFSCSDFSWENDIKTPDITSVLASIPTSTEVNESAFVQNNNGSNSTAPPVMGNANWD
LADLEPYMKFLMDDRSDESIDSILSCDVPQDVVGNDLWTFDDMPLSAGFY

> F2E8K7 (*Hordeum vulgare*) 385

MCGGAILAGFIPPSAAAAAKAATAKKQQQRSVTADSLWTGLRKKADEEDFEADFRDF
ERDSSEEDDEVEEVPPPPAPATAGFAFAAAAVALRAPARRDAVQHDGPAAKQVKRVR
KNQYRGIRQRPWGKWAEEIRDPSKGVRVWLGTYDTAEAAARAYDAEARKIRGKKAKVNFP
EDAPTVQKSTLKPTAAKSAKLAPPKACEDQPFNHLRGNDLFFAMFAFSKKVPAKPTD
SVDSLPPVKHLAPTEAFGMNMLSDQSSNSFGSTDGFWDDEAMTPDYTSPVPSAAAMPAY
GEPAYLQGGAPKRMNRNFGVAVLPQGNGAQDIPAFDNEVKYSLPYVESSSDGSMDNLLLN
GAMQDGASSGDLWSLDELFMAAGGY

> B4G1N2 (*Zea mays*) 363

MCGGAILANLREPAPRRLTERDIWQQKKKLKGGGGGRRSFAAEDDEDFEADFEVFEADS
SDSDLELREGTDDVVIEIKPFTAKRTFSSDGLSTMFTAVERSAKRKRKNLYRGIRQRPWG
KWAEEIRDPKQKGVRVWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFPDAPAVGQKHRSGS
ASAKASKSSFGQKPIVKVAMNNLANTNASFFQSASYPNSNLFVQHGNMPFVPAMNSTASVD
DLIMNLHSDQGSNSFGCSDLGWENDTKTPDITSIAPISTIAEGDESAFVDSNSNSFVLP
ALENSAVDLDGLTDLESYMRFLMDGGASDSIDSLNLDGSQDVGSMDLWSFDDMPIVG
DF

> B4G1H0 (*Zea mays*) 361

MCGGAILAELREPAPRRLTERDIWQQKKKPDRGGAGGRRSFAAEDDEDFEADFEVFEADS
GDSDELREGEADDDVIEIKPFAAKSTFSRDGLSTMFTAVERSAKRKRKNLYRGIRQRPWG
KWAEEIRDPKQKGVRVWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFPDAPAVGQKHRSGS
CRSSSASAKALKSCVEQKPIVKTDMNILANTNAPFYQSVNYASNNPFPAMNSTVSFEDP
IMNLHSDQGSNSLGCSDLGWENDTKTPDITSIAPISTIAEGDESVFVNSNSNSMPPVL
ENNAVDTLDGLTDLESYMRFLMDGGASDSIDSLNLDGSQDVGSMDLWSFDDMPIAGDF
F

> B8A346 (*Zea mays*) 448

MCGGAILANLREPAPRRLTERDIWQQKKKLKGGGGGRRSFAAEDDEDFEADFEVFEADS
SDSDLELREGTDDVVIEIKPFTAKRTFSSDGLSTMFTAVERSAKRKRKNLYRGIRQRPWG
KWAEEIRDPKQKGVRVWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFPDAPAVGQKHRSGS
ASAKASKSSFGQKPIVKVAMNNLANTNASFFQSASYPNSNLFVQHGNMPFVPAMNSTASVD
DLIMNLHSDQGSNSFGCSDLGWENDTKTPDITSIAPISTIAEGDESAFVDSNSNSFVLP
ALENSAVDLDGLTDLESYMRFLMDGGASDSIDSLNLDGSQDVGSMDLWSFDDMPIVV

RFLLRILKLGHRSMYIGTRGIKTGGDWEAPAWHLGGSICSLAQRCSRSCILKLLGYRPVP
YFSYLFMRAIYETEPFCFAFFSLLQYMV

> B6TMM1 (*Zea mays*) 363

MCGGAILANLREPAPRRLTERDIWQQKKLKRGGGGRRSFAAEDDEDFEADFEVFEADS
SDSDLELRGTDDVVEIKPFTAKRTFSSDGLSTMASAVRASKRKNLRYRGIRQRPWG
KWAEEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDAPEVGQKRRSGS
ASAKASKSSFGQKPIVKVTMNSLANTNASFQSVPNSFVQHGNIPFVPAMNSTGSVE
DPIMNLHSDQGSNSFGCSDFSLGWFENDTKTPDITSIAPISTIAEGDESAFVDSNSNNSFVLP
ALENSAVDLTDGLTDLESYMRFLVLDGGPSDSVDSLNLGSQDVGSNMDLWSFDDMPIAG
DF

> B8A023 (*Zea mays*) 363

MCGGAILSDIIIPPPPPRVTAHLWPESKKPRAASGRRGAPVEQHEQEEDEADFEFE
VESGESELESEDEPKPFAAPRSALARGGLNTGAAGVDGPAAKSVRKRKNQFRGIRRRPW
GKWAEEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDEVPTAVSQKRR
AAGPASLKAPKMDVEEEKPIIKLAVNNMTNSNAYHYPAVVGHNIYPEPFMQTNMPFAPLV
VNYAALVNLSQGSNSFGCSDFSLENDSRTPDITSVPAPVATLAvgESVFVQNTAGHA
VASPATGNTGVDLAELEPYMNFLMDGGSDSISTLLSCDGSDVVSNMDLWSFEDMPMSA
GFY

> C0PM12 (*Zea mays*) 362

MCGGAILSDIIIPPPPPRVTAHLWPESKKPRAASGRRGAPVEQHEQEEDEADFEFE
ESGESELESEDEPKPFAAPRSALARGGLNTGAAGVDGPAAKSVRKRKNQFRGIRRRPW
KWAEEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDEVPTAVSQKRA
AGPASLKAPKMDVEEEKPIIKLAVNNMTNSNAYHYPAVVGHNIYPEPFMQTNMPFAPLV
NYAALVNLSQGSNSFGCSDFSLENDSRTPDITSVPAPVATLAvgESVFVQNTAGHAV
ASPATGNTGVDLAELEPYMNFLMDGGSDSISTLLSCDGSDVVSNMDLWSFEDMPMSA
FY

> Q6K7E6 (*Oryza sativa (Japonica)*) 365

MCGGAIIHHLKGHPEGSRRATEGLLWPEKKPRWGGGRRHFGGFVEEDDEDFEADFEF
EVDSGDSDLELGEEDDDVVEIKPAFKRALSRDNLSTITAGFDGPAAKSAKRKRKNQF
RGIRQRPWGKWAEEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFP
TAQKRRAGSTTAKAPKSSVEQKPTVCPAFNNLANANAFVYPSANFTSNKPFVQPDNMPFV
PAMNSAAPIEDPIINSDQGSNSFGCSDFGWENDTKTPDITSIAPISTIAEVDESAFIKSS
TNPMVPPVMENSAVLDPLDLEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLWSFDDMP
VSDFY

> Q69Y47 (*Oryza sativa* (Japonica)) 362

MCGGAILSDLIPPPRVTAGDLWLEKTKQQQQKKKNKGARRLPLRQEEEDFEADFEF
EVDSGEWEVESDADEAKPLAAPRGFAKGGLKNTTVAGADGPAARSAKRKRNQFRGIRQ
RPWGKAAEIRDPRKGVRVWLGTFSPEEAARAYDAEARRIRGKAKVNFPDGAPVASQR
SHAEPSSMNMMPAFSIEEKPAVMSAGNKMTMYNTNAYAYPAVEYTLQEPFVQIQNVSFVPAM
NAIEDTFVNLLSDQGSNSFGCSDFSQENDIKTPDITSMLAPTMTGVDDSAFLQNNASDAM
VPPVMGNASIDLADLEPYMKFLIDGGSDESIDLSSDGSQDVASSMDLWSFDDMPVSAE
FY

> Q69PH3 (*Oryza sativa* (Japonica)) 396

MCGGAIISGFIPPSAAAAAAAAAVAKKQQGRRVTADVLWPGMLRKGKAAAAEEDFEADFRE
FERGMSDDEAEGGGEEEEEDDDVVVVVPPAARFVVRRAAKAAPPTADGMLTTKLVQH
DGPTARSACKRKKNQYRGIRQRPWGKAAEIRDPSKGVRVWLGTNTAEEAARAYDAEAR
KIRGKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLFAMILA
KVPACKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYSVFVP
NAAMPAYGEPAYLTGGAPKMRNNYGIAPQQNGMPNLAQNMPTFDPEMKYLPLPYVESS
SDESMDNLLQNDATQDGASNEGIWSLDELLMAAGAY

> Q1ZZM5 (*Oryza sativa* (Japonica)) 396

MCGGAIISGFIPPSAAAAAAAAAKKQQGRRVTADVLWPGMLRKGKAAAAEEDFEADFRE
FERGMSDDEAEGGGEEEEEDDDVVVVVPPAARFVVRRAAKAAPPTADGMLTTKLVQH
DGPTARSACKRKKNQYRGIRQRPWGKAAEIRDPSKGVRVWLGTNTAEEAARAYDAEAR
KIRGKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLFAMILA
KVPACKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYSVFVP
NAAMPAYGEPAYLTGGAPKMRNNYGIAPQQNGMPNLAQNMPTFDPEMKYLPLPYVESS
SDESMDNLLQNDATQDGASNEGIWSLDELLMAAGAY

> Q5MFV3 (*Oryza sativa* (Indica)) 399

MCGGAIISGFIPPSAAAAAAAAAKKQQGRRVTADVLWPGMLRKGKAGAAEEDFEADF
REFERGMSDDEAEGGGEEEEEDDVVEVPPPATARFVVRRAAKAAPPTADGMLTTKL
VQHDGPTARSACKRKKNQYRGIRQRPWGKAAEIRDPSKGVRVWLGTNTAEEAARAYDA
EARKIRGKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKSCGDDAFFQLNSSDNDLF
MLAKVPAKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYSV
FVPNAAMPAYGEPAYLTGGAPKMRNNYGIAPQQNGMPNLAQNMPTFDPEMKYLPLPYV
ESSSDESMNLLQNDATQDGASNEGIWSLDELLMAAGAY

> A2Z1K6 (*Oryza sativa* (Indica)) 399

MCGGAIISGFIPPSAAAAAAAAAKKQQGRRVTADVLWPGMLRKGKAAAAEEDFEADF
REFERGMSDDEAEGGGEEEEEDDVVEVPPPATARFVVRRAAKAAPPTADGMLTTKL
VQHDGPTARSACKRKKNQYRGIRQRPWGKAAEIRDPSKGVRVWLGTNTAEEAARAYDA
EARKIRGKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKSCGDDAFFQLNSSDNDLF
MLAKVPAKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYSV
FVPNAAMPAYGEPAYLTGGAPKMRNNYGIAPQQNGMPNLAQNMPTFDPEMKYLPLPYV
ESSSDESMNLLQNDATQDGASNEGIWSLDELLMAAGAY

> G1E8V7 (*Oryza sativa* (Indica)) 365

MCGGAI IHHLKGHPEGSRRATEGLLWPEKKPRWGGGRRHFGGFVEEDDEDFEADFEF
EVDSGDSDELGEEDDDDVEIKPAFKRALSRDNLSTITTAGFDGPAAKSAKRKRKNQF
RGIRQRPGKWAEEIRDPRKGVRWLGTFSNSAEEARAYDAEARRIRGKKAKVNFP
TAQKRRAGSTTAKAHKSSVEQKPTVKPAFNNLANANAFVYPSANFTSNKPFVQPDNMPFV
PAKNSAAPIEDPIINSDQGSNSFGCSDFGWENDTKTPDITSIAPISTIAEVDESAFIKSS
TNPMVPPVMENSAVDLPDLEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLWSFDDMP
VSDFY

> A2YA85 (*Oryza sativa* (Indica)) 362

MCGGAILSDLIPPPRRVTAGDLWLEKTKQQQQKKKNKGARRLPLRQEEDDEDFEADFEF
EVDSGEWEVESDAEAKPLAAPRSGFAKGGLKNTTVAGADGPAARSASKRKRNQFRGIRQ
RPWGKWAEEIRDPRKGVRWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFP
SHAEPSSMNMPAFSIEEKPAVMSAGNKIMYNTNAYAYPAVEYTLQEPFVQIQNVSFVPAM
NAIEDTFVNLSQGSNSFGCSDFSQENDIKTPDITSMLAPTTGVDDSAFLQNNASDAM
VPPVMGNASIDLADLEPYMKFLIDGGSDESIDTLLSSDGSQDVASSMDLWSFDDMPVSAE
FY

> A0A0E0CS91 (*Oryza meridionalis*) 365

MCGGAI IHHLKGHPEGSRRVTEGLLWPEKKPRWGGGRRHFGGFVEEDDEDFEADFEF
EVDSGDSDELGEEDDDDVEIKPAFKRALSRDNLSTITTAGFDGPAAKSAKRKRKNQF
RGIRQRPGKWAEEIRDPRKGVRWLGTFSNSAEEARAYDAEARRIRGKKAKVNFP
TAQKRRAGSTTAKAPKSSVEQKPTVKPAFNNLANANAFVYPSANFTSNKPFVQPDNMPFV
PAMNSAAPIEDPIINSDQGSNSFGCSDFGWENDTKTPDITSIAPISTIAEVDESAFIKSS
TNPMVPPVMENSAVDLPDLEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLWSFDDMP
VSDFY

> A0A0E0DYA2 (*Oryza meridionalis*) 367

MCGGAILSDLIPPPRRVTAGDLWLEKTKQQQQQQKKKNKGARRLPLRQEEDDEDFEA
DFEEFEVDSEWEVESDAEAKPLAASRSGFAKGGLKNTTIAGADGPAARSASKRKRNQF
RGIRQRPGKWAEEIRDPRKGVRWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFP
VASQRSHAEPPSMNMPAFSVEEKPTVMSAGNNNTMYNTNAYAYPAVEYTLQEPFVQIQNVS
FVPAMNAIEDTFVNLSQGSNSFGCSDFSQENDIKTPDITSMLAPMTGVDDSAFLQNN
ASDAMVPPVMGNASIDLADLEPYMKFLIDGGSDESIDTLLSSDGSQDVASSMDLWSFDDM
PVSAEFY

> A0A0E0ESI4 (*Oryza meridionalis*) 367

MCGGAIISGFIPPSAAAAAAAAAKKQQGRVRTADVLWPGMLRKKGAAVVEEDFEADFRE
FERGMSDDEAEGGGEEEEEDDDVVVVVPPAAAAAARFVVRAAKAAPPTADGMLTTK
LVQHDGPTARSAKRKRKNQYRGIRQRPWGKAAEIRDPSKGVRWLGYNTAEEARAYD
AEARKIRGKKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLF
AMLAKVPAKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYTS
VFVPNAAMPAYGEPAYLTGGAPKMRNNYGIAVPQGNNGMPNLAQNMPTFDPEMKYLPLPY
VESSSDESMNLLQNDATQDGASNEGIWSLDELLMAAGAY

> A0A0E0ESI3 (*Oryza meridionalis*) 411

MCGGAIISGFIPPSAAAAAAAAAKKQQGRVRTADVLWPGMLRKKGAAVVEEDFEADFRE
FERGMSDDEAEGGGEEEEEDDDVVVVVPPAAAAAARFVVRAAKAAPPTADGMLTTK
LVQHDGPTARSAKRKRKNQYRGIRQRPWGKAAEIRDPSKGVRWLGYNTAEEARAYD
AEARKIRGKKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLF
AMLAKVPAKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYTS
VFVPNAAMPAYGEPAYLTGGAPKMRNNYGIAVPQGNNGMPNLAQNMPTFDPEMKYLPLPY
VESSSDESMNLLQNDATQDGASNEGIWSLDELLMAADLILGQLIGRTVT

> A0A0D3GDR9 (*Oryza barthii*) 362

MCGGAILSDLIPPRRVTAGDLWLEKTKQQQQKKKNKGARRLPLRQEEEDDFEADFEF
EVDSGEWEVESDADEAKPLAAPRGFAKGGLKNTTVAGADGPAARSAKRKRKNQFRGIRQ
RPWGKAAEIRDPRKGVRWLGTFSNPEEAARAYDAEARRIRGKKAKVNFPDGAPVASQR
SHAEPSSMNMPAFSIEKPAVMSAGNNMTYNTSAYAYPAVEYTLQEPFVQIQNVSFVPAM
NAIEDTFVNLLSDQGSNSFGCSDFSQENDIKTPDITSMLAPTMTGVDDSAFLQNNASDAM
VPPVMGNASIDLADLEPYMKFLIDGGSDESIDLSSDGSQDVASSMDLWSFDDMPVSAE
FY

> A0A0D3H779 (*Oryza barthii*) 362

MCGGAIISGFIPPSAAAAAAAAAKKQQGRVRTADVLWPGMLRKKGAAAEEEDFEAD
FREFERGMSDDEAEGGGEEEEEDDVVVVPPAAARFVVRAAKAAPPTADGMLTTK
LVQHDGPTARSAKRKRKNQYRGIRQRPWGKAAEIRDPSKGVRWLGYNTAEEARAYD
AEARKIRGKKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLF
AMLAKVPSKPAEPVDLMPVKPLASTETFEMNMLSDTSSNSFGSSDFGWEDDTLTPDYTS
VFVPNAAMPAYGEPAYLTGGAPKMRNNYGIAVPQGNNGMPNLAQNMPTFDPEMKYLPLPY
VESSSDESMNLLQNDATQDGASNEGIWSLDELLMAAGAY

> A0A0E0GDQ9 (*Oryza nivara*) 365

MCGGAIIHHLKGHPEGSRRATEGLLWPEKKKPRWGGGRRHFGGFVEEDDEDFEADFEF
EVSGDSDLELGEEDDDDVVEIKPAFKRALSRDNLSTITTAGFDGPAAKSAKRKRKNQF
RGIRQRPWGKAAEIRDPRKGVRWLGTFSNAAEEARAYDAEARRIRGKKAKVNFPPEAPT
TAQKRRAGSTTAKAPKSSVEQKPTVKPAFNLANANAFVYPSANFTSNKPFVQPDNMPFV

PAKNSAAPIEDPIINSDQGSNSFGCSDFGWENDTKTPDITSIAPISTIAEVDESAFIKS
TNPMVPPVMENSAVDLPDLEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLWSFDDMP
VSDFY

> A0A0E0HM33 (*Oryza nivara*) 362

MCGGAILSDLIPPRRTAGDLWLEKTKQQQQKKNNKGARRPLRQEEDDFEADFEF
EVDSGEWEVESDAEAKPLAAPRGFAKGGLKNTTVAGADGPAARSAKRKRNQFRGIRQ
RPWGKAAEIRDPCKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDGAPVASQR
SHAEPSSNMMPAFSIEEKPAVMSAGNKIMYNTNAYAYPAVEYTLQEPFVQIQNVSFVPAM
NAIEDTFVNLSQGSNSFGCSDFSQENDIKTPDITSMLAPLITGVDDSAFLQNNASDAM
VPVMGNASIDLADLEPYMKFLIDGGSDESIDLSSDGSQDVASSMDLWSFDDMPVSAE
FY

> A0A0E0IJZ5 (*Oryza nivara*) 398

MCGGAIISGFIPPSAAAAAAAAAAKKQQGRRVTADVLWPGMLRKKGAAAAEEDFEADFR
EFERGMSDDEAEGGGEEEEEEEDDVVVVVPPAARFVRAAAKAAPPTADGMLTTKLV
QHDGPTARSAKRKRNQYRGIRQRPWGKAAEIRDPSKGVRWLGTNTAEEAARAYDAE
ARKIRGKKAKVNFPDEPAVAQKLQLKQNAAKQEKLAPPLKTCGDDAFFQLNSSDNDLFAM
LAKVPAKPAEPVDLMPVKPLASTETFEMNMLS DTSSNSFGSSDFGWEDDTLTPDYTSVF
VPNAAMPAYGEPAYLTGGAPKRMNNYGIAVPQGNGMPNLAQNMPAVDPEMKYLPLPYVE
SSSDESMNDNLQNDATQDGASNEGIWSLDELLMAAGAY

> A0A0E0K607 (*Oryza punctata*) 371

MCGGAIIHHLKGHPEGSRRVTEGLLWPEKKPRWGAGGRRHFGGFVEEDDEDFEADFEF
EVSGDSDLELGEEEDDDVVEIKPAFKRALSRDNLSTITAGFDGPAARSAKRKRNQ
FRGIRQRPWGKAAEIRDPRKGVRWLGTFSNSAAAARAYDAEARRIRGKKAKVNFPPEAP
TTAQKRAGTTAKAPSSVEQKPTVKPAFFNLVNTNAFVYPSAFTSNKPFVQPDNMPF
VPAMNSAAPIDDPIINSDQGSNSFGCSDFGWENDTKTPDITSIAPISTIAEVDESAFIKS
STQNPMVPPVMENSTVLDLADSLPDLPEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLW
SFDDMPVSDFY

> A0A0E0L8W7 (*Oryza punctata*) 363

MCGGAILSDLIPPRRTAGDLWLEKTKQQQQKNKNNKGARRLPRVVVEEDFEADFE
EFEVDSGESEVESDAEAKPFVAPRGFAKGGLNIAVAGADGPAARSAKRKRNQFRGIR
QRPWGKAAEIRDPRKGVRWLGTFSPEEAARAYDAEARRIRGKKAKVNFPDGAPVASQ
RSLAEPSSNMPTFTVEEKPTIMSAGNNTMYNTNAYAYPAVEYTLQEPFVQTQNVPFVPA
MNIIEDPFMNLSSDQGSNSFGCSDFSQENDIKTPDITSMLAPLTGVDESAFLQNNASDA

IVPPVMGNGSIDLADLEPYMKFLIDGGSDESINTLLSSDGSDQVASSMDLWSFDDMPVSA
EFY

> A0A0E0M1L0 (*Oryza punctata*) 403

MCGGAIISGFIPPSAAAAAAAAAKKQQGRRVTADVLWPGMRKAAAAVVEEDFEADF
REFERGMSDDEAEGGGEEEDMVVEVPPAAAARFIARAACKAAAGVAAPTAGMLTTKL
VEHDGPTARSAKRKRKNQYRGIRQRPWGKWAEEIRDPSKGVRWLGTNTAEEAARAYDA
EARKIRGKKAKVNFPDEPAVAQKLSLKQNAAKQEKLAPPLKTCGDDAFFHLNNNSDNDLFA
MLAFSDKKVPAKPAEPVDFMPPVKPLASTETFEMNMLS DTSSNSFGSSDIGWEDDTLTPD
YTSVFPVNAAMPAYGEPAYLTGGAPKRMNRNNYGVAVPQGNMPNLTNMPTFDPEMKYLP
LPYVESSSDESMDSSLQNDATQDGANNEGIWSLDELLMAAGAY

> J3LHR2 (*Oryza brachyantha*) 364

MCGGAILTSLKGH PAGSRRVTEALLWPEKKKPRWGGGRRHFGGFMEEDDEEDFEADFEF
EVDSGESDLELGVEDDDDDVIETPKVKRALSRDLSTITTAGFDGPAARSAKRKRKNQFR
GIRQRPWGKWAEEIRDPRKGVRWLGTFSNSAAAARAYDAEARRIRGKKAKVNFPETPTT
AQKRRAGSTTAKPKSKVEQKPTVKPAFNNLVNTNAFVYPSTNFTSNKPFVQOPENMLFVP
AMNSAAPIEDLIINSQGSNSFGCSDLGWENDTKPDITSIAPISTIAEVDESAFIRSNT
DNSVAPPIMENSTVDLPDLEPYMRFLDDGAGDSIDSLLNLDGSQDVASNMDLWSFDDMP
VSDF

> J3MC15 (*Oryza brachyantha*) 361

MCGGAILSDILPPP RRVTAGDLWLEKQQKKKTQKARRLPRRDEEEEEEDFEADFEE
FEGESGESEVEVEVESDVDEAKPRGQRRLNNTVAGADGPAARSAKRKRKNQFRGIRQR
PWGKWAEEIRDPRKGVRWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFPDGAPVASQSQ
HTEPSSVNMPTFSVEEKPAVMSAGNNTMYNTNAYAYRAVEYTL EEPVQTQNVSFVPTMN
VIGDSFLNLS SDQGSNSFGCSDFSQENDTKPDITSMLAPTLTEVDESAFLQNNASGAMV
PPVMGNASV DLADEPYMKFLIDGGSDESINTLLSSDGSDQDVASSMDLWSFDDMPVSAEF
Y

> J3MXR7 (*Oryza brachyantha*) 398

MCGGAIISGFIPPSAGAAXAAAKKQQGRRVTADVLWPGMRGKAKAGR GFGVEEDDFEADFRE
FEQGLSDDEADGGGEVDDDDVVVEVPPPARSVFGAAKAAAGIAPPTADGVLPKLV
QHDGPTARSAKRKRKNQYRGIRQRPWGKWAEEIRDPSKGVRWLGTNTAEEAARAYDAE
ARKIRGKKAKVNFPDELSVAQKPSLKQNAAKQEKLTPPLKTCVDDAFIHPNNADNDLFAM
FSFSDKKVPAKPEEPVGILPPVKPLVSTETFEINMLSDESSNSFGSSDFGWD DDLT PDY
TSVFVPNAYGEPAYLTGGAPKMRNNYGVAVPQGNMPDLTNMPTFDPMK YTPLPYVE
SSSDESMDSSLQNDATQDGASNVGIWSLDELLAAGAY

> A0A0D9YZA8 (*Oryza glumipatula*) 398

MCGGAI1HHLKGHPEGSRRATEGLLWPEKKPRWGGGRHRFGFVEEDDEFADFEF
EVDSGDSDELGEEDDDVVIEKPAAFKRALSRDNLSTITTAGFDGPAAKSAKRKRKNQF
RGIRQRPWGKAAEIRDPRKGVRVWLGTFSNSAEEAARAYDAEARRIRGKKAKVNFP
EAFTAQKRRAGSTTAKAPKSSVEQKPTVKPAFNLANANAFVYPSANFTSNKPFIQPDNMP
FPAMNSAAPIEDPIINSQGSNSFGCSDFGWENDTKPDITSIAPISTIAEVDESAFIKSS
TNPMVPPVMENSAVDLPDLEPYMRFLDDGAGDSIDSLLNLDGSQDVVSNMDLWSFDDMP
VSDFY

> A0A0E0A677 (*Oryza glumipatula*) 362

MCGGAILSDLIPPPRVTAGDLWLEKTKQQQQQKKNGARRPLRQEEDDFEADFEF
EVDSGEWEVESDAEAKPLAAPRSGFAKGGLKNTTVAGADGPAARSAKRKRNQFRGIRQ
RPWGKAAEIRDPRKGVRVWLGTFSNSPEEAARAYDAEARRIRGKKAKVNFP
DGAPVASQRSHAEPSSMNMPAFSIEEKPAVMSAGNNMTMYNTNAYAYPAVEYTL
QEPFVQIQNVSFVPAMNAIEDTFVNLSQGSNSFGCSDFSQENDIKPDITSMLAPT
MTGVDDSAFLQNNASDAMVPVMGNASIDLADLEPYMKFLIDGGSDESIDL
LSSDGSQDVASSMDLWSFDDVPVSAEFY