

>Gh_A03G1606.1 NAME:VSR3; DESC:Vacuolar-sorting receptor 3 ; ORG:Gossypium hirsutum; CHR:A03;

MEIRRLHILLLLQGFMLFSVIGNCYARFVVEKNSLRVTSPEKIKGTYSAGNFGIPQYG
GSMAGAVVYPKENQKGCKSFDDFGISFKSKPGALPTFVLVDRGDCFFALKVWNVQQAGA
SAVLVADDIQEALITMDTPEEDRLAAKYIENITIPSALIEKNFGEILKKAISGGDMVNVNL
DWRESVPHPPDDRVEYELWTNSNDECGVKCDMLMEFLKDFKGAAQILEKGGYTQFTPHYI
TWYCPQAFSLSRQCKSQCINYGRYCAPDPEQDFSSGYEGKDVVIENLRQLCVFKVANETN
KPWLWWDYVTDQFIRCPMKEKKYNKECADVVIRALGLDGKKIEKCMGDPNADEDNPVL
KEEQEAQVGKSGRGDVTILPTLVVNDQYRGKLAKGAVLKAICAGFEETTEPAVCLSGDV
ETNECLDNNGGCWQDKATNLTAACKDTFRGRVCECPLVDGVQFKGDGYSHCEASGSGRC
KINNGGCWHEARDGHAYSACLDDGNGKCQCPPGFKGDGVKNCEDIDECKEKKACQCPE
CCKNTWGSYECTCSGDLLYIRDHDTCSKSGTEVRSSWAAVWVILIGLAMASGGAYLIY
KYRLRSYMDSEIRAIMAQYMPPLDSQAEVPHVSDGRA

>Gh_A05G1816.1 NAME:APT1; DESC:Adenine phosphoribosyltransferase 1, chloroplastic ; ORG:Gossypium hirsutum; CHR:A05;

MLQRALIFSSSNPICSQLPTTAPPDNTVFPKRNGGWIIPFSSYQLPAFRFRNYRRTLLPP
LCSGNVFDAAANRPNMASQDEQDPRISNISSAIRVIPDFPKPGIIFQDITLLLDTKAFR
DTIDLFVERYRGKDISVVAGIEARGFIFGPPIALAIGAKFVPMRKPKNKLPGEVLSSEYSL
EYGKDTMEMHVDVAVKAGERALIIDDLVATGGTLSAAIRLLECVGVHVVEACVIELPELK
GRERLGGKPLFVLLSST

>Gh_A05G2799.1 NAME:TOR1; DESC:Microtubule-associated protein TORTIFOLIA1 ; ORG:Gossypium hirsutum; CHR:A05;

MSFKNRSPTTILQPQDLKQRVYTCLNKLADRDTLAVASAELDSIARNLTADSISPFLN
CLYGTDSSSKSPVRRQCVCLLTLLSRSHGNALSPHLSKMVSTLSRRLRDPESAVRSACVE
ATAAMSSHITKPPFSVLSKPLIEMLVVEQDVNSQVGAAMCLAAIDAAPDPESEQLRKVL
PKLGKLVARNESFKAKAAVFGVIGSVASVGGAGSKGVLDWLVPCAVDALSSSEDWATRKAA
AEALGKVAMAEKELTAEFKSACVVALENKRFDKVKIVRETFNRSLDLWKEVPGVCEVSAP
SQSDSSSVETGNGSFSGFSPVTKSVDDAGFRTLQSKKVVPSTRSPPSDASTEPTAEKETHL
SSNYRNWNISDFSKLDRTPSDCKTEIAEPRKSLFFKAYDNIKNGDLGVMESREIGDSRD
SRLETKRVLFAKVRDENVQKYGGKLTGSRVVPFHDENLDFDDKKAHAVEADENPKVEDL
SLIREQLAQIEDQQSNLLNLLQKFIGSSQSGINSLETRVNGLEMALDEISYDLSLSNGRIP
NMDSADKTCCKLPGTEFLSPKFWRKPEGRFSTSRSSSGRMLSLNAAHNIPDKDSRAETY
IPAVSQRHQHQGCGGFIFPVADGCNGITDNGSSNRLSKNTIQNAERVQLGNGSDPDGTT
LVRCTAPMKP

>Gh_A06G0385.1 NAME:Dnajb13; DESC:DnaJ homolog subfamily B member 13 ; ORG:Gossypium hirsutum; CHR:A06;

MVNHLNQEPVPIFNQKKKGFSLEITRVLSWRLRLKSSSSDQPIYQPSQGSPDENGDG
QKIVRVSSWTSDSDGSRSEGRSSKGFFKYRSMACFSRQDSTNSKGTSKRSRSPSPSPKP
SSQNKEGSLRRSTTTDRNGLFEPLSGSTSRPNGNPIMFSNSTGVVKPPPIEKQLECTLED
LCYGCTEKIKIKRDVITESGQRVEHKEMLSINVEPGWKKGKITFEGMGNEVPRLYAADV
TFVIAEKQHPHIFGRDGDDLELTIEIPLVKALTGCSLPIPLLGGEKMELKIDEIHPGYEK

IIITGQGMPTTKEAASRGNLKVRFILNFPTELTDQQAQAAVRILGDSSS

>Gh_A13G0991.1 NAME:NAGK; DESC:Acetylglutamate kinase, chloroplastic ;
ORG:Gossypium hirsutum; CHR:A13;

MGATATGKSLHFCSSQDPLSFLSLTMTKSKAETLNLNFRFSKPPLTPNSRRLRLSIRASS
PSSTALNDPPLPSLTNSDLQLRVRLSESLPYIQKFRGKTIVVKYGGAAAMKSAELKASVV
RDLVLLSCVGLRPVLVHGGGPEINVLLNQLNIPAQFRDGLRVTDARTMEVVSMVLVGKVN
KDLVSRINYAGATAVGLSGMDGRLLVARPSPNAAQLGFVGEVARVDPTVLQTIVDNGSIP
VIASVAADEYGYQPYNNADTVAGEVAAAALGAEKLILLTDVAGILRNREDPGSLVKEIDIK
GVKKMIEEGKVGGGMIPKVNCCIRSLDQGVTTASIIDGRVEHSLHEIMTDEGAGTMITG

>Gh_D01G0585.1 NAME:UBQ10; DESC:Polyubiquitin 10 ; ORG:Gossypium hirsutum;
CHR:D01;

MQIFVKTLTGKTITLEVESSDTIDNVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLADYN
IQKESTLHLVLRRLRGGMQIFVKTLTGKTITLEVESSDTIDNVKAKIQDKEGIPPDQQRLL
FAGKQLEDGRTLADYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTITLEVESSDTIDNVKA
KIQDKEGIPPDQQRLLIFAGKQLEDGRTLADYNIQKESTLHLVLRRLRGGMQIFVKTLTGKT
ITLEVESSDTIDNVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLADYNIQKESTLHLVLR
LRGGMQIFVKTLTGKTITLEVESSDTIDNVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTL
ADYNIQKESTLHLVLRRLRGGMQIFVKTLTGKTITLEVESSDTIDNVKAKIQDKEGIPPDQ
QRLIFAGKQLEDGRTLADYNIQKESTLHLVLRRLRGGFRMVF

>Gh_D03G1692.1 NAME:dnaJ; DESC:Chaperone protein DnaJ ; ORG:Gossypium hirsutum;
CHR:scaffold3874_D03;

MAIIPCGSTFVAQWHIRPQLTTRSYPNIRIMTARLGVSTMSYLRASNSGLFARDSLPLL
SFVRPSQTSIHRRGAQFIVRAETDYTYTVLGVSRNASKSEIKSAYRKLARSYHPDVNKDPG
AETKFKEISNAYEVLSDDEKRSYDKEYGEAGLKAGMGMGDFSNPFDLFESLFEGMGGM
GGMGMGGRSSRNRAVDGQDEYYSLVLNFKDAVFGVEKEIEITRLESCGTCNGSGAKPGTT
PSKCTTCGGQGVQISSARTPLGVFQQVMTCCSSCGGTGEISTPCNTCSGDGRVRRTRKISLK
VPAGVDSGSRLRVRSEGNAGRRGGSAGDLFVVIEVIPDPVLKRDDTNILYTCKVSYIDAI
LGTTIKVPTVDGMVDLKIPAGTQPNNTLVMKKGVVPLNKTNMRGDQLVRVQVEIPKRL
SSEKKLIEELADLSKGKTASSRR

>Gh_D05G0050.1 NAME:RAX3; DESC:Transcription factor RAX3 ; ORG:Gossypium hirsutum;
CHR:D05;

MGRAPCCDKANVKKGPWSPEEDAKLKAYIEQYGTGGNWIALPQKIGLKRCGKSCRLRW
LNYLRPNKHGGFSEEDNIICSLYISIGSRWSIIAAQLPGRDNDIKNYWNTKLKKLLGR
RKQPSNIHRLSNQDPNDPHQPTGSDDNQFSQGLSNSAMERLQLHMQLTQNPFSFYNNP
ALWPKIHPLQEKMIGNMQASNGNPNLLMQPLLPNPQANEQSTVHQQDYPEISNTKGLE
GLDNCLDGISPSDGSVPFGNGDNLMDSTSTAAVQQVSSFQGELDVFLNNKSSTTGGYPQ
EDQMVNQLDCFRDINGSKDSLWPTDFDAKSASSNSWDSTSVLQSNGMFQDFELGYPM

>Gh_D05G1532.1 NAME:AGP30; DESC:Non-classical arabinogalactan protein 30 ;
ORG:Gossypium hirsutum; CHR:D05;

MGFAVVVLVVKAVLLVQLSLLLLSTFTVSAPIWPQASPPHYHAVSPVPPSHPPTHHHHH
HHPHHPHHPHPTKPTPTPPPVPHPKAPVQPPTKPTTSAPPKPPVQPPTKPTKPTQP
PPKPPTQPPTKPTKPTQSPPTKPPTHPPSHPPAKPPTSSHVAVQGVVYCKSCKYAGVDT
LLGAKPIPRATVRLTCKDAKNELTVQFKTDKNGYFFLQAPITIYNFDLHNCVSLVSSPL
RACSKPSNLNGGLKGAPLKPEKPSTSKKLPLYVLYSVGPFAFEPTCHK

>Gh_D05G2725.1 NAME:DNAJ1; DESC:DnaJ protein homolog ; ORG:Gossypium hirsutum;
CHR:D05;

MFGRAPKKSDNTKYEILGVPKTASQDDLKAYRKAANKNHPDKGGDPEKFKELAQAYE
VLSDPEKREIYDQYGEDALKEGMMGGGGGAHDPFDIFQSFFGGNPFGGGGSSRGRRQRRG
EDVIHPLKVSLEDLYNGTSKKLSLRNICSCKGKSGKSGASMKCSGCQGSQGMKVSIRHL
GPSMIQQMQHPCNDCKGTGETINDKDRCPQCKGEKVVQEKKVLEVNVEKGMQNGQKIT
FPGEADEAPDVTGDIVFVLQKDHDPKFKRKGGDLFVEHTLTLTEALCGFQFILTHLDGRQ
LLIKTHPGEVVKPDQFKAINDEGMPMYQRPFMRGKLYIHFTVDFPDSLAEQCKALEAVL
PPRTSVQLTDMELDECEETLYDVNIEEEMRRKQAQAAQEAYEEDDDMHGGAQRVQCA
Q

>Gh_D12G2323.1 DESC:B2 protein ; ORG:Gossypium hirsutum; CHR:D12;

MENNQQSFQWQFSDQLRVQNSNLANSLSNDSIWSSGYVSKRPDERRNFDIRVGGELNSVNS
LKPKVTDNFNSFSDGKIGATSNANIGFGPIGPIGSQNNVGVNGGINKGIYSKPGNNNNN
FNVNLKGSKNKGEDNHGTSKSKKNTNKKNNNNNDNNNENKDGKSAADKRFKTLPPSES
LPRNETVGGYIFVCNNDTMEENLRRQLFGLPPRYRDSVRAITPGLPLFLYNYSTHQLHGVF
EAASFSGTNIDPTAWEDKKCPGESRFPAQVRVITRKICEPLEEDSFRPILHHYDGPFRLE
LNIPEALSLLDIFADQQDTCIS

>Gh_D13G1239.1 NAME:NAGK; DESC:Acetylglutamate kinase, chloroplastic ;
ORG:Gossypium hirsutum; CHR:D13;

MGATATGKSLHFCSSQDPLSFLSLTKTKSKAETLNLNFRFSKPPLTPNSRRLRLSIRASS
PSSTALNDPPLPSLSNSDLQLRVRLSESLPYIQKFRGKTIVVKYGGGAAMKSAELKASVV
RDLVLLSCVGLRPVLVHGGGPEINVLLNQLNIPAQFRDGLRVTDARTMEVVSMVLVGKVN
KDLVSRINYAGATAVGLSGMDGRLLVARPSPNAAQLGFVGEVARVDPTVLQTIVDNGSIP
VIASVADEYQPYNNADTVAGEVAAAALGAEKLILLTDVAGILRNREDPGSLVKEIDIK
GVKKMIEEGKVGGGMIPKVNCCIRSLAQGVTTASIIDGRVEHSLHEIMTDEGAGTMITG