WRKY Cluster

>AtWRKY33

MAASFLTMDNSRTRQNMNGSANWSQQSGRTSTSSLEDLEIPKFRSFAPSSISISPSLVSPSTCFSPSLFLDSPAFVSSSANVLASPTTGALITNVTNQKGINEGDKSNNNNFNLFDFSFHTQSSGVSAPTTTTTTTTTTTTTNSSIFQSQEQQKKNQSEQWSQTETRPNNQAVSYNGREQRKGEDGYNWRKYGQKQVKGSENPRSYYKCTFPNCPTKKKVERSLEGQITEIVYKGSHNHPKPQSTRRSSSSSSTFHSAVYNASLDHNRQASSDQPNSNNSFHQSDSFGMQQEDNTTSDSVGDDEFEQGSSIVSRDEEDCGSEPEAKRWKGDNETNGGNGGGSKTVREPRIVVQTTSDIDILDDGYRWRKYGQKVVKGNPNPRSYYKCTTIGCPVRKHVERASHDMRAVITTYEGKHNHDVPAARGSGYATNRAPQDSSSVPIRPAAIAGHSNYTTSSQAPYTLQMLHNNNTNTGPFGYAMNNNNNNSNLQTQQNFVGGGFSRAKEEPNEETSFFDSFMP

>AtWRKY4

MSEKEEAPSTSKSTGAPSRPTLSLPPRPFSEMFFNGGVGFSPGPMTLVSNMFPDSDEFRSFSQLLAGAMSSPATAAAAAAAATASDYQRLGEGTNSSSGDVDPRFKQNRPTGLMISQSQSPSMFTVPPGLSPAMLLDSPSFLGLFSPVQGSYGMTHQQALAQVTAQAVQANANMQPQTEYPPPSQVQSFSSGQAQIPTSAPLPAQRETSDVTIIEHRSQQPLNVDKPADDGYNWRKYGQKQVKGSEFPRSYYKCTNPGCPVKKKVERSLDGQVTEIIYKGQHNHEPPQNTKRGNKDNTANINGSSINNNRGSSELGASQFQTNSSNKTKREQHEAVSQATTTEHLSEASDGEEVGNGETDVREKDENEPDPKRRSTEVRISEPAPAASHRTVTEPRIIVQTTSEVDLLDDGYRWRKYGQKVVKGNPYPRSYYKCTTPGCGVRKHVERAATDPKAVVTTYEGKHNHDLPAAKSSSHAAAAAQLRPDNRPGGLANLNQQQQQQPVARLRLKEEQTT

>PhPH3

MEVNEAAKIAIARPVASRPRCPIYRSFSELLAGAINTSSTNVHSEMGITAIKPKTVRLKPAANYALIGELSSQVGMSGAPVDCRSDNILQSAEKPKVLYKPMAKLAPRKNISLLENKGSYAPDQKREIAEDEAEGHVQSASEVKQQNGLTTESRQSLLAKSRQDKRIMQSAIVSENTEEVEQSLLNTNNVDRPSYDGYNWRKYGQKQVKGSEYPRSYYKCTHLKCPVKKKVERSHDGQIAEIVYRGEHNHPKPQPPKRNFSDGQGRALVSNDTSKETINPALSNQYPHTREANVHRIENQADVGLSTQTAYCSKPPCFYDPTSGAGMYRAFRNSEDSAERDKKLEADCDEPKTKRRKIEGQPNGAGTSGESALPHMSIQNTTDSEITEDGFRWRKYGQKVVKGNSYPRSYYRCTSPKCNVRKFVERTIDDPNALITTYEGKHNHGIPSRRPNSEASKTSSKSSAMKDKS

>VvWRKY26

MEIKESERIVVAKPVASRPTCSSFRSFSELLAGAINASPPTPCPETSFAAIRPKTVRFKPVANRAPIGVVSSQAQVSGTEVCNSSDKVLKSDSKPTVVYKPLAKLVSKTTVSLLANLGSSNMSHQQTLAQVEARVQPPNQDRQHSRPHLSSNLHQTFPSQEETDRTSEPSKTASQNLEEDQKPLLPSSNGDRPSYDGYNWRKYGQKQVKGSEYPRSYYKCTYPSCPVKKKVERSLDGQIAEIVYKGEHNHSKPQPPKRNSSGTLGQGFVSDGTGQDTNNPAWGTRLNERNEGSEGRIENQNEVGLSTHSTYPGKAPLNYDSGTAGALKAGGGTPDNSCGLSGDCEEGSKGLEPEEDEPRSKRRKSENQSSETVIVGEGAQEPRIVVQNSTDSEILGDGFRWRKYGQKVVKGNSYPRSYYRCTSLKCNVRKHVERASEDPGSFITTYEGKHNHDMPTRNTNAATSEPDMQAHTNKEKP

>FvWRKY44

MDIKEAERVVIAKPVATRPTCSSFKSFTELLTGAIDAAPSNVSSETAVPAIRPKTVRFKPTANHPVAALVSSQAETSGAAISNSAEKVSKSDSKSTVVYKPLAKVVSRATVSALANLGNFNTSQQQTQSSVGTGVVLRPNRDKSYKTQLVSNIYQKSRSCAETSQTTEPVKIVSQNMEEDAKNIPAAANSDRPSYDGYNWRKYGQKQVKGSEYPRSYYKCTHPNCPVKKKVERSLDGQIAEIVYKGEHNHSKPQPPKRSSSGTQGSGFASDATGQDYNTRLWNSHLNEKNEGSEGRVEDQNEVGIPVHSYQSKNIVHYDPLATGKLNAGTATPDNSCGVSGECEEGSKGVETEDYEPRSKRRKSENQSSEAGISGEVMQEPRVVVQSSADTEITGDGFRWRKYGQKVVKGNPYPRSYYRCTSVKCSVRKHVERVSEDPKAFITTYEGKHNHDMPLRTANPGASSEKDPQAPPSSKEKP

>AtWRKY75

MEGYDNGSLYAPFLSLKSHSKPELHQGEEESSKVRSEGCSKSVESSKKKGKKQRYAFQTRSQVDILDDGYRWRKYGQKAVKNNKFPRSYYRCTYGGCNVKKQVQRLTVDQEVVVTTYEGVHSHPIEKSTENFEHILTQMQIYSSF

>PbWRKY75

MENYPTFFSSSTAPAPFPLSLNMGNPAHHVYNSNDLHQFQNSKSSNGFLGLMSEMEASNNMIKNNSSSQEKSFGGSERSEATVRLGMKKGDQKKIRKPRYAFQTRSQVDILDDGYRWRKYGQKAVKNNKFPRSYYRCTHQGCNVKKQVQRLTKDEGVVVTTYEGMHSHPIEKSTDNFEHILSQMKIYTPF

>MdWRKY11

MAIDLVGFSKMDDRTAVQEAASAGLQSMQHLIRTLSNQTPSHTPLDCREISDFTVTKFKHLISVLNRTGHARFRRGPAKPASDSVHPKPQTTLTAFQTPKSDKDYSTTVSPPVSTTSSFFSSNTIGDGSVSNGKTFSSISVPTPPAFSAGKPPLPQSHRKRCHEGEPAKTSSSSGHCHCSKRRKSKVKRTIRVAAISSKTADIPADEFAWRKYGQKPIKGSPHPRGYYRCSTVRGCPARKHVERAQDDPKMLVVTYEAEHRHPHPYPSLTAANVGLVFQSS

>AtWRKY53

MEGRDMLSWEQKTLLSELINGFDAAKKLQARLREAPSPSSSFSSPATAVAETNEILVKQIVSSYERSLLLLNWSSSPSVQLIPTPVTVVPVANPGSVPESPASINGSPRSEEFADGGGSSESHHRQDYIFNSKKRKMLPKWSEKVRISPERGLEGPQDDVFSWRKYGQKDILGAKFPRSYYRCTHRSTQNCWATKQVQRSDGDATVFEVTYRGTHTCSQAITRTPPLASPEKRQDTRVKPAITQKPKDILESLKSNLTVRTDGLDDGKDVFSFPDTPPFYNYGTINGEFGHVESSPIFDVVDWFNPTVEIDTTFPAFLHESIYY

>AtWRKY6

MDRGWSGLTLDSSSLDLLNPNRISHKNHRRFSNPLAMSRIDEEDDQKTRISTNGSEFRFPVSLSGIRDREDEDFSSGVAGDNDREVPGEVDFFSDKKSRVCREDDEGFRVKKEEQDDRTDVNTGLNLRTTGNTKSDESMIDDGESSEMEDKRAKNELVKLQDELKKMTMDNQKLRELLTQVSNSYTSLQMHLVSLMQQQQQQNNKVIEAAEKPEETIVPRQFIDLGPTRAVGEAEDVSNSSSEDRTRSGGSSAAERRSNGKRLGREESPETESNKIQKVNSTTPTTFDQTAEATMRKARVSVRARSEAPMISDGCQWRKYGQKMAKGNPCPRAYYRCTMATGCPVRKQVQRCAEDRSILITTYEGNHNHPLPPAAVAMASTTTAAANMLLSGSMSSHDGMMNPTNLLARAVLPCSTSMATISASAPFPTVTLDLTHSPPPPNGSNPSSSAATNNNHNSLMQRPQQQQQQMTNLPPGMLPHVIGQALYNQSKFSGLQFSGGSPSTAAFSQSHAVADTITALTADPNFTAALAAVISSMINGTNHHDGEGNNKNQ

>AtWRKY40

MDQYSSSLVDTSLDLTIGVTRMRVEEDPPTSALVEELNRVSAENKKLSEMLTLMCDNYNVLRKQLMEYVNKSNITERDQISPPKKRKSPAREDAFSCAVIGGVSESSSTDQDEYLCKKQREETVVKEKVSRVYYKTEASDTTLVVKDGYQWRKYGQKVTRDNPSPRAYFKCACAPSCSVKKKVQRSVEDQSVLVATYEGEHNHPMPSQIDSNNGLNRHISHGGSASTPVAANRRSSLTVPVTTVDMIESKKVTSPTSRIDFPQVQKLLVEQMASSLTKDPNFTAALAAAVTGKLYQQNHTEK

>MdWRKY40

MDHSAAYDDDTTLDLNSRPLRLFDDTPMIKQEVHSKISIDFGRQLSSTEESGRLLEELHRVSAENKKLTEMLTVMGENYNALRSQLLEYMSKNPEKELSPISKKRKSESSNNNTNSNNIMNGAVNGNSESSSSDGESFKKPREETIKAKVSRIYVRTEASDTTSLVVKDGYQWRKYGQKVTRDNPCPRAYFKCSFAPSCPVKKKVQRSVEDQSILVGTYEGEHNHPNPSQIEATSGSNRCMTIGSVPYSTSLGSSGPTITLDLTKSKSSTADAEGTKTRTETPEVRKFLVEQMASSLTKDPDFTKALATAISGRILQHNTY

>PdWRKY40

MDYSAAYDDDTSLDLNSMPLRLFNDTPMIKKEVHSKILIDFGRQLSPKEESGALLEELHRVSAENKKLTEMLTVMGENYNALRNQLLEYMSKNPEKELSPISKKRKSESSNNNTNSNNIMNGAVNRNSESSSSDGESYKKPREEIVKAKISRACVQTEASDTSLVVKDGYQWRKYGQKVTRDNPCPRAYFKCSFAPSCPVKKKVQRSVEDQSILVATYEGEHNHPNPSQIEATSGSNNCVAIGSVPCSTSLGSTGPTITLDLTKSKSSTADAKSTKTRTETPEVRKFLVQQMASSLTKDPDFTKALAAAISGRILQHNTY

> Cluster-13485.74238(IbWRKY21)

MEEIEEANRAAVESCHRVISLLSQPHDQSQYAKLALETGEAVHKFKRVVSKLNSTLGHARVRKVKKIQTPSLPPSILLENPMCRGDDHHPKALQLLPAISLEASNQEKGSSGVKSGLALGNPSFELNLHGKTPVPLSHQTPIPSYHFLQQQQQRYQQQQQQQLKQQAEMIYRRSNSGISLNFDSSTCTPTMSSTRSFISSLSIDGSVANMDGNAFHLIGASRSADLSSYQHKKRCSGRGEDGSTKCGSSSRCHCSKKRKHRVKRSIKVPAISNKLADIPQDEYSWRKYGQKPIKGSPHPRGYYKCSSMRGCPARKHVERCLEDPSMLIVTYEGDHNHPRVPSQSANT

> Cluster-11869.0(IbWRKY24)

MQVSDREPPFNGNEDNNNDDERRGDDDTVKVAREKIDCETNNNNSNSNNNNGAAGDSKPLDKAVADRPRRPSIAERRAAKCGFKASSIRCMASDSSSTAAVAAPSPSSLRSSYFTISPGISPTALLDSPVMLPNSLGQQSPTTGTMQFPAAEDENFGFNLAGVIDHNSPDEMKSSIGESSDPFPSTSANETPQVSYSSQMQITPSIPFDFPMESLDCGVEVSGVDTNPNSNSNSNLMLQSPVSGECINNNVNGESCSSYNNQEQELDHRRGAAAAPAAKSVANNNASAAAGGGASSSDDGYTWRKYGQKHVKGSEYPRSYYKCTHPKCTMKKKVERSPDGQITEIVYKGAHNHPKQATSLRRSPPSLGAESCSSEMMGQGGGSCFRAQAPIWANIQHYGSMPERPTLASSSDLTAEICDPLSSLTTRSAAAMSGFESAATPEPSSTLASQDCDDNEDAVTQGISNSQFGDDGESEPKRRRKDGWSTEASLSTRSIREPRVVLQIESEIDILDDGYRWRKYGQKVVKGNPNPRSYYKCTSPGCPVRKHVERASDDLKSVITTYEGKHNHDVPPNKAAVVNYNSYSAAPGTTASSAMARAPALGGVGVQDNHPSFPFERKPMIAGGGGDELLRPEMLNCYAGDFRFVPSSIYPLKFPPPPLQGRSSPLTAAAAAATYNYSRPPGLVLPEFPMPLLPMSLPPFHELTNLPPLADFLHFNDPSTKEEHKENDPHTSLLYE

> Cluster-13485.101021(IbWRKY44)

MEIKEVKKIAVAKPVATRPTCSAYTPFSELLSGAINGSSTGGCSQTAVIAAIRPKTVRLRSAGNQTLGGKVEMPGVSAWSPPANVLKSDDKPTIVYKPMPKLLSKATFPQNLNMRSSTSSQQNEAAEETNQVRPSEIRLEAHQSLSLKSGTEKKPVENSKMALQNIEEDERSVFQGSGVDCLSSDGYNWRKYGQKQVKGSEFPRSYYKCTHPKCPVKKKVERSSLDDQIAEIVYKGEHNHPKPQLPRSNLRDGQPKGVLVSEDTCNETNNPVRSEQLTLQNEPCGLSTEHKNTTMLSTRSTYSSGPPPPCYPVTSAAAFHGAVSTPENSCTPSGIHREGLEAEGDELKGKRRKCGSQTNNGATLGNGAMETQTVVGSTTDSETTGDGFRWRKYGQKVVKGNTYPRSYYRCTSPKCNVRKYVERAPDDPKSFITTYEGKHNHDIPTRNPNPEASRSSTRAAATKEKS\*

>PyWRKY26

MASSSGSLETSANSHPAAFTFSTHPFMTNSFSDLLEAGTDEYSNPPRYIGQGGLSDRIAERTGSGVPKFKSLPPPSLPISPPSISPSSYFAIPPGLSPAELLDSPVLLNASNILPSPTTGSFAARGAFNWKNNQQNVKQESKNHSDFSFQTQARPPISSSSSMFQSSNTSIQTTQEQAWNSQELPKQEYGSVQTLSSELTTKTLQSNAPANGGFNQQSQTLSRKSDDGFNWRKYGQKQVKGSENPRSYYKCTYPNCPTKKKVERSLDGQITEIVYKGNHNHPKPQNPRRSSSNSHAIHAFNPTNTNEIPDQTYANHGNSQMDSIGTPEHSSISIGDDDFEQSSQRSKSGGGEEFDEDEPNAKRWKNEADRNEEISAPGSRTVREPRVVVQTTSDIDILDDGYRWRKYGQKVVKGNPNPRSYYKCTNPGCPVRKHVERASHDLRAVITTYEGKHNHDVPAARGSGRPXXXXTHDVPAARGSGSHAAVNRPIPNNNNNLASAMRPITHHTNNSANTNSLQNLRQPTSEGQAPFSLEMLQSPGSYGFVGFDGNSLGSYMNQTQLSDIFSKAKEEPRDDAFFESLLC

>PyWRKY31

MDKGWGLTLDSDSFGYLLNKPPTAAVKLDHHNNKRSSFFRGERMFPGMEFPVKLGRREEQDASQPSNDNNRKVVDEVDFFSDRKNKLNTNSTDDHHQDSKSNGAVSVKKENWTGLDVNTGLQLVTANTRSDQSMVDDGISSDHGVNKTAKNHELAQLQVEVQRMNAENQRLKEMLGQVTNNYSVLQMHLAAVVQQQNHTTAAPADQRSQLDRDQNAEAKSDQEKKQGLVPRQFLNLGPRATAETNDDQVSNCSSEARTRSASPPQNIDEVVKNDQIGPLDPPNSNNFRDGKRVGGDESPESESQGWVPNKVPKLNNSAAPKPIDQSTEATMRKARVSVRARSEAPMITDGCQWRKYGQKMAKGNPCPRAYYRCTMAVGCPVRKQVQRCAEDRTILITTYEGNHNHPLPPAAMAMASTTTAAASMLLSGSMASADGMNMNPNNLLARAILPCSSSVATISASAPFPTVTLDLTTSPLQFQRPNTPFQVPNFPGQPQSFGAASQQLPQGFGQALYNQSKFSGLQLSQDLMGSTSSQQQQQMQQTQSSSFADTVSAIAADPSFTAALAAAITSIIGGGAHPSNNNSASTTSNNSSGANNNKNISSFPGN

>StWRKY13

MEVNETAKIAIVRPVASRPRCPIYKSFSELLAGAVDISSTNVHSEMAITAIRPKTVRLKPVTNHALVGERSSQVAMSEAPVGCRSDYILQSVEKPKVLYKPIAKLAPRKTIPLLENKGSSVSDQRREKAETKAGVQSANEVKQHRDLTTESKRSLLAKSGEDKKIVGSTIVSESTEEVPQSLINTSNVDRPSYDGYNWRKYGQKQVKGSEYPRSYYKCTHLKCPVKKKVERSYDAQIAEIVYRGEHNHPKPQPPKRNLSDVHVRAAVCNDTSKETNNPAWSNQHPQTSEAYVYRIENQNDFGLTIHSAHSSKAPCFYDPIAAAGMLTAVGNSEDSAEGSKRLETTCDEPKTKRRKLKGQCNRAGTSGESTFPYIPNQSTTDSEITDDGFRWRKYGQKVVKGSSYPRSYYRCTSPKCSMRKFVERTMDDPKAFITTYEGKHNHVVPNRRPNSEASKTSSKSSAMKEKS

MYB Cluster

>AtMYB90/PAP2

MEGSSKGLRKGAWTAEEDSLLRLCIDKYGEGKWHQVPLRAGLNRCRKSCRLRWLNYLKPSIKRGRLSNDEVDLLLRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLSKKHESSCCKSKMKKKNIISPPTTPVQKIGVFKPRPRSFSVNNGCSHLNGLPEVDLIPSCLGLKKNNVCENSITCNKDDEKDDFVNNLMNGDNMWLENLLGENQEADAIVPEATTAEHGATLAFDVEQLWSLFDGETVELD

>AtMYB113

MGESPKGLRKGTWTTEEDILLRQCIDKYGEGKWHRVPLRTGLNRCRKSCRLRWLNYLKPSIKRGKLCSDEVDLVLRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLSKKHDERCCKTKMINKNITSHPTSSAQKIDVLKPRPRSFSDKNSCNDVNILPKVDVVPLHLGLNNNYVCESSITCNKDEQKDKLININLLDGDNMWWESLLEADVLGPEATETAKGVTLPLDFEQIWARFDEETLELN

>AtMYB114

MEGSSKGLRKGAWTAEEDSLLRQCIGKYGEGKWHQVPLRAGLNRCRKSCRLRWLNYLKPSIKRGKFSSDEVDLLLRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLSKKHEPCCKTKIKRINIITPPNTPAQKVDIF

>PtrMYB117

MVSSSGTRKGAWTREEDILLRDCVEKYGERRWHQVSPRAGLNRCGKSCRLRWLNYLKPGIKRGRYSEDEEDLIIKLHRLLGNRWTLIAGRLPGRTANDVKNYWNTNLRKKVVSGTREAQTKPEPKAITKANIIKPRPHKFKSSCWLGGEGIPFFNGGFQYGYDLCKPCSTSALSPSDIFEVERMWWESLLDDKEINVSSSTGCLRSGSESDQEPITSLFAEDSAPEGMRIGDVFCEQGQHCWSDLSFDAAELWNLVNT

>VvMYBA1

MESLGVRKGAWIQEEDVLLRKCIEKYGEGKWHLVPLRAGLNRCRKSCRLRWLNYLKPDIKRGEFALDEVDLMIRLHNLLGNRWSLIAGRLPGRTANDVKNYWHSHHFKKEVQFQEEGRDKPQTHSKTKAIKPHPHKFSKALPRFELKTTAVDTFDTQVSTSRKPSSTSPQPNDDIIWWESLLAEHAQMDQETDFSASGEMLIASLRTEETATQKKGPMDGMIEQIQGGEGDFPFDVGFWDTPNTQVNHLI

>PhAN2

MSTSNASTSGVRKGAWTEEEDLLLRECIDKYGEGKWHLVPVRAGLNRCRKSCRLRWLNYLRPHIKRGDFSLDEVDLILRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLRKKLIAPHDQKQESKNKAVKITENNIIKPRPRTFSRPAMNNFPCWNGKSCNKNTIDKNEGDTEIIKFSDEKQKPEESIDDGLQWWANLLANNIEIEELVSCNSPTLLHEETAPSVNAESSLTQGGGSGLSDFSVDIDDIWDLVS

>PhPHZ

MNTTIPKSSGLVRKGAWTEEEDVLLRKCIEKFGEGKWHQVPVRAGLNRCRKSCRLRWLNYLRPHIKRGDFSEDEVDLIFRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLQRKLIAPARQEIRKCRALKITENNIVRPRPRTFSNSAQNISWCSNKSITNSTIDTDGSNNECIRINDKKPMAEVSRDDGVQWWTSLLANCNENDEPAVENMSYDKLPSLLHEEISPPMNGGISDCMQEGQSGWDDFSVDIDHLWNLLN

>PhAN4

MKTSVFTSSGVLRKGSWTEEEDILLRKCIEKYGEGKWHQVPVRAGLNRCRKSCRLRWMNYLRPHIKRGDFSPDEVDLILRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTNLLRRSKFAPPQQHDRKCPKAIKTMAKNAIIRPQPRNLSKLAKNNVSTIHKDEHSKQEIIIEKPTTAEVVSRDENVEWWTNLLLDNCNGFEKAATESTSAFKNIESLLNEELLSPSINGGTYYPMQETRDMGWSDLSIDADLWELL

>PhDPL

MNTSVFTSSGVLRKGAWAEEEDILLRKCIEKYGEGKWHQVPVRAGLNRCRKSCRLRWLNYLRPHIKRGDFSPEEVDLILRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLLRRSNFAPPPQHERKCTKAVKIMAKNVIIRPQPRNLSKLAKNNVSNYSTIHKDEHSKQKMFIEKPTAAEVVSRDNNVEWWTNLLLDNCNGFEKAAPESTSAVKNIENLLNEELLSTSINGGTNYPMQETGDMGWSDFSIDSDLWELLLQ

>IpMYB1

MVNSSARWSPRVRKGAWSEEEDDLLRKCIQKFGEGKWHLVPFRAGLNRCRKSCRLRWLNYLHPDIKRGHFSLEEADLILRLHKLLGNRWSLIAGRIPGRTANDVKNYWHSHLKKKVVSMHMASSNSSRQDNNWDDEKGKAPQIKENILFRPRPRRFFRTSLSSPALSTLTGKAKAVVYDAPPPPPPPPHQLQPQPEATSPAADLLMVFNVQQNSNSIETNLPAQTTAPSSHDGVKWWEDLLYDDSHQGLIDWTTDDDFPIDVDLLKLLDTTI

>InMYB1

MVNSSARWSPRVRKGAWSEEEDDLLRKCIQKFGEGKWHLVPFRAGLNRCRKSCRLRWLNYLHPDIKRGHFSLEEADLILRLHKLLGNRWSLIAGRIPGRTANDVKNYWHSHLKKKVVGMHMASSNSSRQDNNWDDEKGKAPQIKENILFRPRPRRFFRTSLSSPALSTLTGKAKAVAYDAPPPPHHHQLQAQPEATSPPADLLMVFNVQQNNNSMATNFPAQTTAPPSHDGVKWWDLLYDDDHQGLIDWTTDDDFPIDVDLLKLLDTTI

>IbMYB3

MADSSSSEPPSGVKKGAWTEQEDNLLRKCIHKYGEGKWHLVPVRAGLNRCRKSCRLRWLNYLRPDIKRGDFNLDEIDLIMRLHKLLGNRWSLIAGRIPGRTANDVKNLWNTRLQKKTIANNTPSSGQEKWKDKAPKTTENTAVIRPRPRRFVMNSSSRTLPITGKTTTIVTSEVVQLQGHNKPPEAAESTSAPRLIENVDPNNSIIDLPGGAETSDDLGQWLDDFLLDMEFDGDGMACMQEGQIEWCDFHIDSDLLDLLS

>IbMYB1

MVISSVWSGSSSRVRKGSWSEEEDQLLRECIQKYGEGKWHLIPLRAGLNRCRKSCRLRWLNYLRPDIKRGEFSPDEIDLILRLHRLLGNRWSLIAGRIPGRTANDVKNLWNTHLQKKVSAMASSRQDNYWKGKAPEITENTVVRPRPRRFLKASSSPTTLLTGNATMVAYDGQLQEHMTTQPETTSDLLMENVQQKNLTTTLPSALETTPHDNVKWWEDVLSDKELNEEGQICWSEFPTDIDLLSELLS

>InMYB2

MVNSSSAWPPPSSSRLMRKGAWTEEEDNLLRKCIQKYGEGKWHLVPLRAGLNRCRKSCRLRWLNYLRPDIKRGDFSVDEVDLIMRLHRLLGNRWSLIAGRIPGRTANDVKNYWNTHIQKKVFAMARMQDNWKGKAPEIRENTVVRPRPRRFLNTSLSPTSKTGKATAVTYDAQIQGHTLPQPPEAIITTSDLVMENVQLNNTIATLPSELETTTSDDRVRWWEDLLFDKEFNDDEGNACMHEGQVGWTNLPIDMDLLELLS

>IbMYB2

MVNSLSSAWPSPSGLMRKGAWTEEEDNLLRKCIQKYGEGKWHLVPLRAGLNRCRKSCRLRWLNYLRPDIKRGDFSVDEVDLIMRLHRLLGNRWSLIAGRIPGRTANDVKNYWNTHIQKKVFAMAAASSRMQDNWKGKAPEISKNTVVKPQPRRFLNTSSISRTSITGKATAVTYDAQIQAHTLPQPETTTTSDLVMENVQKNDTIASFPSELETTTFDDRVQWWEELLFDKELNDEGTACMHEGQVGWSHLPTDIDLLELLS

>InMYB3

MANSSAWSGVRKGAWSEEEDNLLRKCIQEYGEGKWHLIPIRAGLNRCRKSCRLRWLNYLRPDIKRGDFKLDEVDLIMRLHKLLGNRWSLIAGRIPGRTANDVKNYWNTHIQKKVFAMASSMQDNWKGKAPEMRENNVVRPRPRRLFLNTTSSLLSGTPPLTGKATAVTFDAQIQGHNKIPQPEATSELVTKNLQENNTIITASELETTTSNDRVQWWEDFLFDNAGSTCMNQGQVDWPNFPTDMDLSELLS

>FaMYB10

MEGFGVRKGAWTKEEDELLKQFIEIHGEGKWHHVPLKSGLNRCRKSCRLRWLNYLKPNIKRGEFAEDEVDLIIRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTYQRKKDQKTASYAKKLKVKPRENTIAYTIVRPRPRTFIKRFNFTERYANIEHNHSEVSYTSSLPTEPPQTLQLENVTDWWKDFSEDSTESIDRTMCSGLGLEDHDFFTNFWVEDMLLSASNDLVNISYV

>MdMYB1

MEGYNENLSVRKGAWTREEDNLLRQCVEIHGEGKWNQVSYKAGLNRCRKSCRQRWLNYLKPNIKRGDFKEDEVDLIIRLHRLLGNRWSLIARRLPGRTANAVKNYWNTRLRIDSRMKTVKNKSQEMRKTNVIRPQPQKFNRSSYYLSSKEPILDHIQSAEDLSTPPQTSSSTKNGNDWWETLLEGEDTFERAAYPSIELEEELFTSFWFDDRLSPRSCANFPEGQSRSEFSFSTDLWNHSKEE

>MdMYB10

MEGYNENLSVRKGAWTREEDNLLRQCVEIHGEGKWNQVSYKAGLNRCRKSCRLRWLNYLKPNIKRGDFKEDEVDLIIRLHRLLGNRWSLIARRLPGRTANAVKNYWNTRLRIDSRMKTVKNKSQEMRETNVIRPQPQKFNRSSYYLSSKEPILDHIQSAEDLSTPPQTSSSTKNGNDWWETLLEGEDTFERAAYPSIELEEELFTSFWFDDRLSPRSCANFPEGHSRSEFSFSTDLWNHSKEE

>AtMYB4

MGRSPCCEKAHTNKGAWTKEEDERLVAYIKAHGEGCWRSLPKAAGLLRCGKSCRLRWINYLRPDLKRGNFTEEEDELIIKLHSLLGNKWSLIAGRLPGRTDNEIKNYWNTHIRRKLINRGIDPTSHRPIQESSASQDSKPTQLEPVTSNTINISFTSAPKVETFHESISFPGKSEKISMLTFKEEKDECPVQEKFPDLNLELRISLPDDV

DRLQGHGKSTTPRCFKCSLGMINGMECRCGRMRCDVVGGSSKGSDMSNGFDFLGLAKKETTSLLGFRSLEMK

>PhMYB4

MGRSPCCEKAHTNKGAWTKEEDERLIAYIKAHGEGCWRSLPKAAGLLRCGKSCRLRWINYLRPDLKRGNFTEDEDELIIKLHSLLGNKWSLIAGRLPGRTDNEIKNYWNTHIRRKLLSRGIDPTTHRIMNEPSTQKVTTISFAAGNEDIKDQKISIKAEFEQIKDDEIISKPIKEQCPDLNLELKISPPYQQHSDRALQQSTTGSGGASTICFTCSLGLKNNKGCSCSRNRSMNVAGYDFLGLKTNGLDYRTLETRTK

>MdMYB16

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>AtMYB32

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