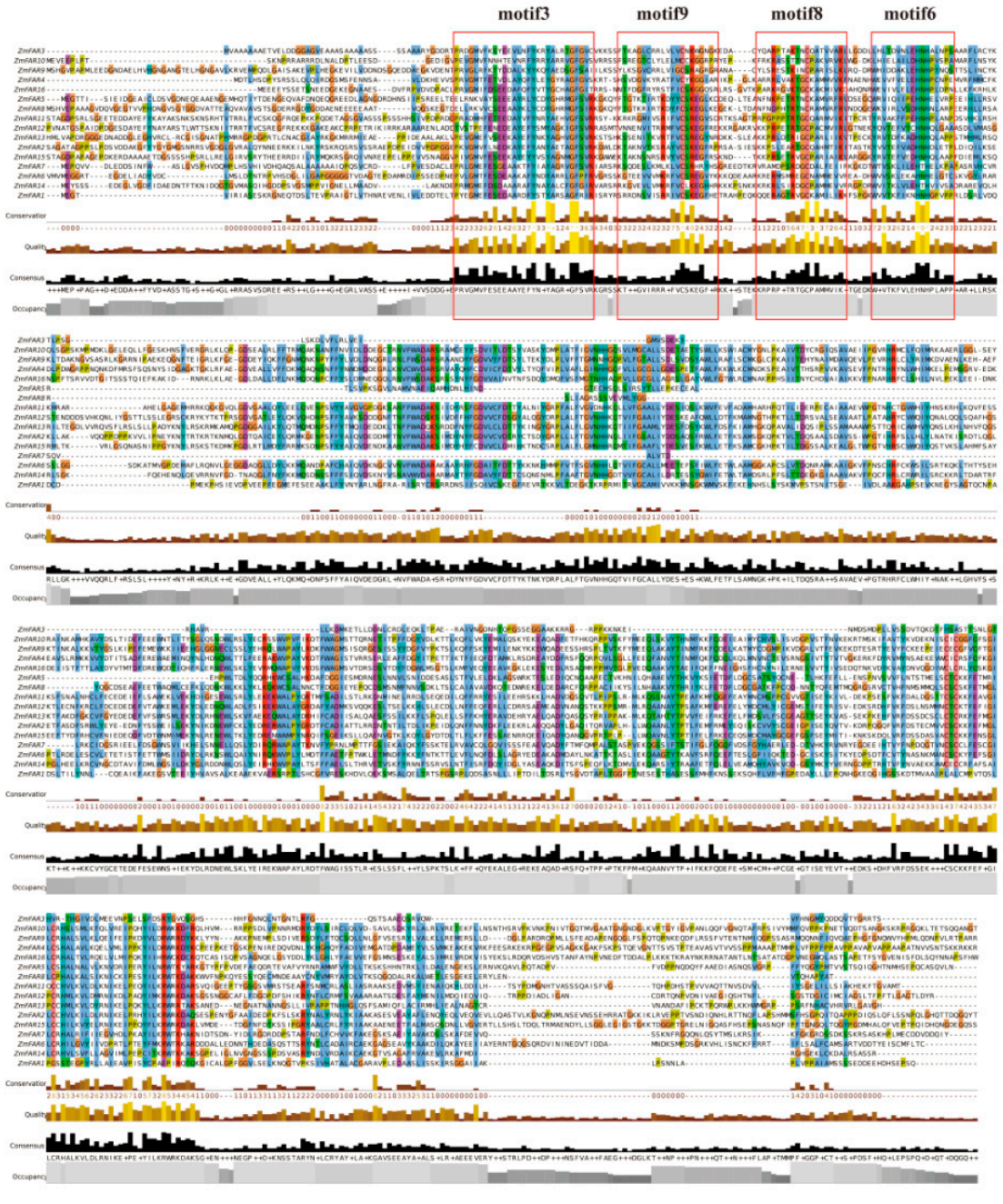
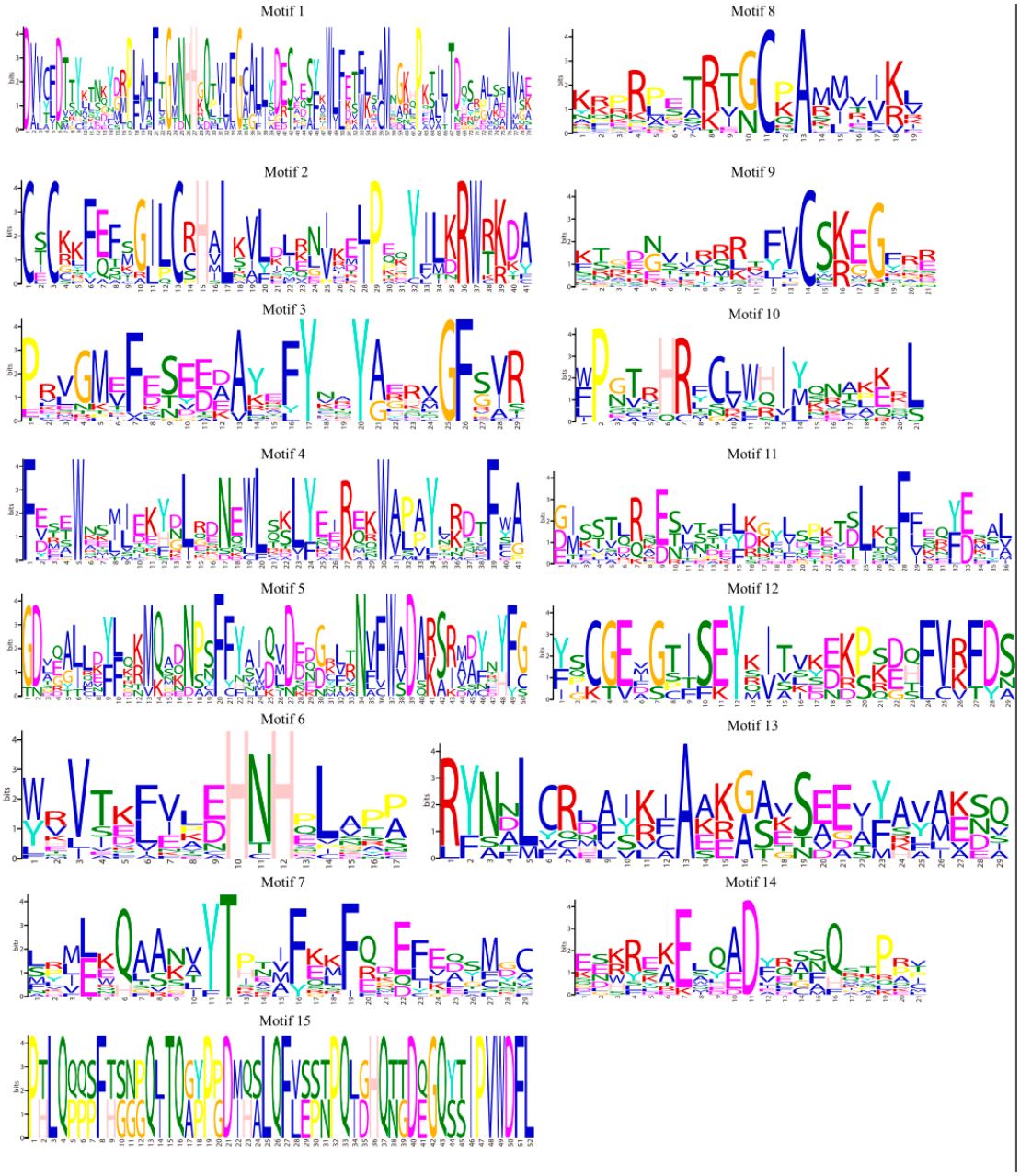


Supplementary Figure S1. Multiple sequence alignment results for the ZmFAR1 family members. The FAR1 domains (motif3-motif9-motif8-motif6) were highlighted in red boxes.



Supplementary Figure S2. The sequence logo of all 15 motifs and the base size at each point showed the likelihood that the base occurred there.

Supplementary Table S1. The protein sequences of 16 *ZmFAR1* genes in maize B73.

Gene Locus ID	Gene Name	Protein Seq
Zm00001d028472	*ZmFAR1-1*	MEGTVIRIASESKRGNEQTDSLTEVPRAIGTLVTHNREVENLIVLEDDTELTPY EGMEFESEDAARDFYSTYARSAGFRIRISRYTRSRRDNSVISRRIVCSKEGFHE TRACDGLHPEQKQQERAGTRVGCKAMILIKKFSPGKWVVTKFIKNHNHGPV PPRKLDSRLVDQDCDPMEKPHSIEVDPVEEPFEGMEFESEEAAKLFYVNYAR LNGFRARISRYCRSRRDNSIISRQIVCSKEGFREVRTKKVLTDEGKTKRPRMIT RVGCKAMIVVKKMNSGKWMVSKFEKEHNHSLSYSKMVPSTSNITSGEIVDL AAKGAHPSEVKNEGYSAGTQCNPADSLTILYNNLCQEAIKFAKEGSVTEEIY HVAVSALKEAAEKVAEVKRSRPTLSHCGFVRESKHDVLQEKSMSALQCSNQ VELTRTSPGSRPLQDSASNLLLIPTDILTDSRLYSGVDTAPLTGGFPTNESESTH ASESSFMHFKNTKKTSSEKSQHFLVFHFGPEDAYLLLEPQNTCFNQLIHGKEQ GIHGSSKDTMVAIPAIPLALCMPVTQSLPGSSTEGPYRLLAAPIEAVPISYCPA EPIRQTQKGICALGPFGGVLSELKNQGTVPKSIVHATALACGARAVPLEDAAS LISAIESKIRSGGAIIAKLPSNNLAPLVPPAIAMSSSSEDDEEHDHSEPSQ
Zm00001d034282	*ZmFAR1-2*	MVDRAAARAQAVSSDPPPPALLEPDPRLSQPGAADGQEVASAGATAGPPSLP QASDAEEDALASPAGQPGERCRAMMEVVAKDGAWKVTKLVVEHCHELQV APGHVAVTVPALGMEFDSVDDAKGFYYGYGEQVGFKARMGSNRRSVGDG EKILQRFLCWKGNYANRSRCKDSDAGKETDEVLEGLSAAAGKRKREPYKTR SRNPGRSTEVIEVEKGVGLGGAGNGLELDNGRRSRRGRSKKAEVEHGEDSV VGFEAEEVAKAVSDADEEEDEGDEDQEAAEQEVEVEVKEQRARGRPRKAV MEDNALQARVLRELGVRALQYNNEERKKILNKYRSKRQSRSVSSRPTKISSR QALAERRKRGNGGRFLSSEEQPLPSERRSKRLKKQNLKMQKAESKEDETME AEPDPEIDVVPGPGGEPKVGMVFLNEDKAYEFYANYAETAGFSVRKGWLDK TAKNVTKSRAYVCSKEGFRPRSASIESKKPSLEARTGCQAHMTIKITASTKYV VTEFVADHNHDLETPLVDIQILKSEKLLAKVQQPPDPPKVVLIPNEYKNYTRT KRTKNMQLGDTQAICEYLQRMKGENPSFFYAIQVDEDDMFTNVFWADAKSI MDYNYFGDVVCVDTRYCTSDYGRPLLLFTGVNHHNQLIIFGSALIYDDSAQS FRWLFETFKSAMSGKQPKTVLTDQSAALSDAVSSWPGTIHRFSLLHLYLNAT KISRDTLQGLETFASDFSRWLYEYEEDNFYSSWEILSEKYNIKDNEWFCKLYE DRERWALPYGRDTFCADIATTLRRDNTNTILTDLIKPEIDLQNFFNNYDKFLE EKRLAEQQADYLGAQITQRVAPLHLLWQAANLYTPTLFEMFRMEYEQISKC VVYSCGEIGPISEYQVTVKDRPQGQFVRFDSTECMVVCSCKKFEFMGLLCCH VLKILDLRNIKELPRHYILKRWRKDAQSESPENYGFAAIDEDPKFSLSKRYNA LYRNLYKIAAKASESVEAYAFLENQYEQLVEQVEVLLQAKLHDKSSLSTVLK GNQPNMLNSEVNSSEHRRATGKKIKNVEVRRQQQSLDPNKKKKGRQVLLEP EIEIPLRVEPPTVSNDIQNHLRTTNQFLAPSHMMQAPYVAQQFGLGSLQGFPG MSPFGQIQEPTPLQQPHLQPPSFHSGPQITQAPPPDIQSLQFLSSNPQLGHQTTD QGQYTIPVWDFL
Zm00001d034813	*ZmFAR1-3*	MVAAAAAAETVELDDGGAGVEAAASAAAAASSSSAAARYGDDRTPRDGM VFKSYEEVLNFYKRYALRTGFGVCVKKSSFTKAGLCRRLVLVCNKWGNGK EDACYQARPTAKTNCQATVVARLLGDDLLHLTDVNLEHNHALNPSAARFLR CYKTLPSGLSKDLVFLRLVEIGMVSDEKYRHAVRLLKDMKETLLDDNLCRD LEQKLTPAERAIVNGDNHTQPGSSEGGAAKKRRGRPPKKNKEINMDSMDPL LVSSDVTQKDTFHSASTTSNLGTHVRTHGIVDLMEEVNPSELSFDSRYGVQS GHSHHFGNNQLNTGNTLRFGQSTSAAEQSRVQWVFHNGMYQDDQVTYGRR TS
Zm00001d003302	*ZmFAR1-4*	MDTLHSDPYSRSSLQLQIRDGSMSFENNSAVLDKHEVVSPRVGMTFETVDLA YQFYLEYGYRAGFGVSKRTSHSVDGVKYRATFVCYKGGIARIKPGLKARRR LVAKTGCKAMMVVKFNASENHWEVVFVELEHNHPCNPEMVRFMMCFKDL PDWQREHRPFNAKTRLNPKIHSGRGRPPNQNKDFMVRSFSQSNYSIDGAGKT GKLRFAEGDVEALLVFFDKMQAQNSNFFYNWDMDDEGRLKNVCWVDARS RVAYQHFCDVICFDTVYLTYQFVIPLVAFLGINHHGQFVLLGCGLLGDESPET FAWLFKKWLKCMNDKSPEAIVTTHSRPVVKAVSEVFPNTRHRYNLWHIMKE LPEMSGRVEDKEAVSLRMKKVVYDTITSADFEREWAEMINQYNLHDNQWL

		TTLFEERAKWVPAYVKDTFWAGISTVRRSERLEAFFDGYITPETTIKTFIEQFD TAMKLRSDREAYDDFRSFQQRPQVLSGLLFEEQFANVYTINMFQKFQDQLK QLMNVNCTEVSRNGSIVTYTVTVIGKERKFDYRVMYNSAEKEVWCICRSFQ FKGILCSHALAVLKQELVMLIPPKYILDRWRKDYKCPEEPKETPISQKAAKDT GKGSKPENIREDQVDNLYKHGHQYFADIVEMGATDPDAMEYVLSVMKEAK EKVRKFEESRKEKRPGEGPVSAGKKGAKFSKPSTQEVGNTTSVSTPTEAVAS VTVVSSPPMAAAPTMMAMAPPSAAVAGGMFLVPMHPHPLVFPPFPPAVPPA VAPVAPPAAPATNVVSNTSKKRKKRKGNN
Zm00001d041923	*ZmFAR1-5*	MEGTTISIEIDGEAICLDSVGDNEQEAAENGEMHQTIYTDENGEQVAFDNQE QGREEDLAGNGEEDRDHNSIIPSREELTEELRNKVAYSEEEAYRLYCDYGHR MGFSVRKGKQYYFTGTKTIRTKDYYCSKEGLKDDEQLTEANFNKPETRTNC KAMVRFRVDSEGQWRVIQIIPEHNHELVRPEEIHLLRSVRTLSVPKSGVLNA MVNAEIQAMHDNLHINEDGTECHSQLSIRSYTLLEPKECEALEHPWLTDLYQ QRHKWCSALHKDAFDGGIESMDRNESLNNVLSNIDDESASLSTFVLELDKLA GSWRKTESLEDIQCNQAAPECTVKHNRILQHAAEVYTHKVYKSIETDFLDGC SATSYQAAQCNETLHKFEFLLENSPNVSVVFLNTSTMELSCTCKKFETMRILC SHALNALVLKNVDRIPERYILNRWTKYARKGTYPFPVDEFAEQDRTEVAFVY RNRAMWFVYDLLTKSKSHHNTRKLILDALENGEKSLERNVKQAVLPQTADP VFVDPPNQDQYFAAEDIASNQSVGRPFFYQGYPMTVVSTSQIQGHTNMHSEP QCASQVLN
Zm00001d044646	*ZmFAR1-6*	MVMVMEGGRTEGDELIADYVDCLMSLDTNTRPVHSDGLILGAPGGGGGTV DAGTEPDAMRDIPSSEDPNEPVLGMTFESDEAAKAFYNDYARRLGFPFRVGR SRRSKGTEEVVVMKRFVCSREGVYKKKQTSPDEAARKRERMSMREGCNAM MEVVREADHWVVSKLEKAHNHELGTCSAKVGYLRARSSLGGSDKATMVGP DEMAFLRQNVLGEGGDAQGLLDYLKKMQANDPAFCHAIQVDKNGCVVNV FWADARAKAAYRHFGDAITFDTTYKKNKHMMPFVTFSGVNHHLQTVIFGC ALLMEETEFSFIWLFETWLAAMGGKAPCSLVTDQNRAMKAAIGKVFPNSCH RFCKWSILSRTKQKLTHTYSEHPTLRDELESCVLETETISTFETTWMSIIDRYD LRKNSWLQAIYNIRQKWVPLYLMDTFFAETFPTWKLETMNDFYKKYFNTKT TLEVFLNQFDLSLAGRYEDEAKADMDAYLNKATTKTASLIEKQAAGTYTKA VFSRFQEEFTESLGFIIQKTEDGCISKYSITKYEDPSDTFCVTYNASNKMANCS CKYFEFSGILCRHILGVYIIVDPRTLPTEYFMKRWTRKARDDDALLEDNNNN THDEDASQSTTSRYNTLCADAIRCAEKGAGSEAVYKAAKDILQKAYEEIIAY ERNTGQGSQRDVININEDVTIDDAMNDKSMPDSGRKVHLISNCKFFRRTIFLS ALFCAMSARTVDDTYEISCMFLTC
Zm00001d049493	*ZmFAR1-7*	MEPQVVDLEDDSINFWASLGVSPHVDQMPLHSVHIVDHQAQSALAAAAAAAI QPQSVCRDLFPVESDACLEPRLGMEFESGEAAKTFYIAYAGRVGFSVRIARSR KSKCTRVRQSRKSQDESLKMLKLVCSRHRYHSGRESNGEDTKRVRAMDPSR DGCDALFEIIRKGKDTWTVSKLILEHTHELKPAPASRVHCVRSQVALVTDLR KCIDGSRIEELFDSGWNSVIIKHELSNNELLQSLYDIRQRWAPAYTKNVFYPR NLMPTTFGSIEKAIQKYFSSKTELRVAVCQLGQVISSSFEAEVQADYFTMFQM PALSTASPVEKQGSSIFTSTIFGLFQGQFVDSFGYHAERLEDDTVHKYRVNRY EGDEEIHTVYFNPDQGTVNCSCCLFESCGILCRHALRIFIIEGVHDLPKAYILK RWTKHAKNIDTSDNYIDLRGDRDDPSTARFNDLFCHVVKFAKEGSKSAEIYA VAKDSLSKAFDEVVQSSKNFRGQQNLQSYTMSLKRSIKKFGKGRDSSDKSSK RSASKHPLMECDDVDDQIY
Zm00001d016772	*ZmFAR1-8*	MSHVEPAAAGVDQVGEGTVVPHDNGVSGTGGDVATTEAQVAVAVSTSGDE RRGDYGDDAENEEEEEAATVQGSKEGTDELLRKVVCSEEAAYKLYCDYGH RMGFSIRKGKQSYFTGTKRIRTKDYFCSKEGLKEGEKLTDANFNDPHTRTNC RAMVRFRVNDQGEWKVIRLVSDHNHNLARPEERHLLRSARSLIAGRSSSVEV MLYGGYQGCDSEAEFEETWAQMLCEFKLQDNKWLKKLYKLKQKWCSALN NCTFDGGIEYEPQCDSMSNMFNNVSDKLTSLCAIAVAVDKQTEDWREKELD EDARCFQRPPACIIKYSDILNHAAKVYTHRIYKLFETDFLDGCGATKFKELPC QDNNTYQFEMTMQGRGSRVCTVHFNMSMMQLSCSCSKFETMGLLCPHALK ALSIKNICKIPESYILKRWTKDAKKWVFNPKQYESSYQECMNDEAAYCNYV MRYAYDLVTKSQGQDALRKALWETLESGEKELERYLENVTQHAPYAT

Zm00001d017164	*ZmFAR1-9*	MSHGVPAPMLEELAREATLADVSILVDGNDAELHVHGNGAEVHDNGTELH GNGAVLKRVEMPQDLGAISAKEVPLHEGKEVILVDDNDSGQEDDAEGKVDE NTPRVGLRFKTYDDALKYYKQYAEDSGFSAIILKSSYLKSGVCRRLVIGCSRA GRGRANACYLSRESTKINCPARISLKLRQDRWLHIDDAKLEHNHPYNQSTTS LINCYKKLTDAKNGVSASRLKGRRNIPAEKEQGNFTEIGRLKFGEGDDEYIQ KFFGNMQNKNPYFFYLVDLDNQGRLRNLFWSDARSRAANDYFGHDVVYFD TSYLTEKYDLPLVFFTGMNNHGQPVLFGTALLSDLSVDSYAWLLRAFLSCM KGLCPKAIITEHYNAIMDAVQEVLPEVRHRLCLYRIMKDVAENLKEHAEFKT INKALKKVTYGSLKIPEFEMEWKKIIEEHGLGGNECLSSLYEHRQLWAPAYL RDKFWAGMSISQRGESISSYYDGFVYPKTSLKQFFSKYEMILENKYKKEWQA DEESSHRSPLTVTKFYMEEQLAKAYTINMFRKFQDELKATMYCDGMPIKVD GRLVTFEVKECSYMEDGKDTESRTYEVYFCKEEPKVEIECECGFVQFTGILCR HALSVLKLQEIFEIPKDYVLDRWRRDYKKLYYNAKKPNEMPLSDIVERSDYL FTQCSQLLNLGFVSESRYLVALKLLREMERSLLDDGLPARDRQPMLLSFEAD APENGQGLFSPQFSEGVKNSQSAHAKRRGRPLKKVTESTDDTVTQPNKEQDF LRSSFVTENTNMIQGPSSASHLEGPHMGVQGGIDLMDGIPNLSFGNHFGMDI NHQHQVPNHQRMQQNNFIQVQAEPHGFGNQWVYHPMLQDNPVLRTPARR AG
Zm00001d017165	*ZmFAR1-10*	MEVEEPLPTSKNPRRARRRDLNALDPTLEESDGEDIGVPEVGMVFNNHTEVN RFYRRYARRVGFGVSVRRSSFSREGTCLYLELMCCKGGRPRYEPKFRKRASS TTNCPAKVRVKLWGDKLLHIELAILDHNHPVSPAMARFLNSYKQLSGPAKR RLRMGGPGTMPVEESSKMPMDKLGELEQLLFGESKHNSFVERGRLKLQPGD SEALRLFFTRMQAKNANFFNVIDLDDEGCTRNVFWADARSRAMCEYYSDVI TLDTSYVASKYDMPLATFIGVNHHGQSVLMGCALLSDETAETYSWLLKSWI ACMYGNLPKAIVTDYCRGIQSAVAEIIPGVRHRMCLFQIMRKAAERLGGLSE YRAINKAMHKAVYDSLTIDEFEEEWNTLITYSGLQSNDWLRSLYECRSSWVP VFIKDTFWAGMSTTQRNETITPFFDGYVDLKTTLKQFLVKYEMALQSKYEKE AQADFETFHKQRPPVSKFYMEEQLSKVYTHNMFKKFQDEIEAIMYCHVSLIS VDGPVSTFNVKECIFFEDGKRTMSKIFAVTYKVDEKNISCICGGFQFSGILCRH SLSMLKFQLVREIPQHYILDRWKKDFRQLHVMRRPPSDLVPNNRMDRYDYL SIRCLQLVDSAVLSDKYRLALRLVRETEKFLLNSNTHDDTQPRIKSRVPKVNK PNIVTGQTMVGAATGNGNDGLKGPEATAVTQVPQSQKGGAEKGIVPTGYIG VPANLQQFVGNQTAFRPSIVYMVPSGVDPHAFGNVMMPVMYQQMFQVPPK PNETVQDTSANGKSKRPRGQKLTETSQQANGTPASASG
Zm00001d021545	*ZmFAR1-11*	MSTAGDPSRLSGESSPSSSTSSGSSSHSSGAADAAATNLALTAPTSALADDTD ADAPTSPRVGTYFETEDDAYEFYKAYAARLGFVVRKSNKSKNSRHTVTRRL FVCSKQGFRQEPKKPQDETAGSGVASSPSLSLVPAPRCPDSRTGCLASLTIKLI PSANAFRVTDFVADHNHPLASSSPAVSLALLSPSSSHHSIVAVASLPDPRDGP RADMHFETEEDAYVFYNRYAEHVGFSVRRSYKKRKRGMIVSRIFVCSREGV SDRTKQEGGAIVIANGGAGSAGTPRPGPPPTRTGCQARMVIKITPCRTYRVAK FFPEHNHPLANPDSVHKLRSHKMRARAHELGAGEMHRRKQGKGVQLGDVG AALQYLEELQVENPSVYYAVGVGPDGKSAVNFFWADAKSIIDYRSFGDVVC FDTTYALNIYGRPFALFVGVDNHKQLLVFGAALLYDESIQSLKWVFEVFADA MHARHPQTILIDERPECAIAAAEVWPGTNHCTGVWHIYHNSKRHLKQVFESS KSFSNALNHCLFECEDEIEFLSAWEKLVEKHDIGESEWLSRLYLEKEKWALP YQRTMFSADILSTLRKDNMINELRRDLSEQEDILQFFRRYESILEEHRSKKLH ADVDGSQVTLPIPSLRMLKQSSNAYTPEAFKMFQGEFEAYMNCMSFPCGVV GTISEYKIVLDEKPSESFVKFDALDGSTTCSCKKFEAVGIQCCHVLKVLDLKN IKELPEQYILKRWRKDARSVQIGEEPTYGSGSVMRSTSEARFSNMCRLASLIA SRAAKSEDVMSYIESQSNAIQKHLDDILHTSYPDMGNHTVASSSQAISFVGTQ HPDHSTPVVVAQTTNVSDVVLIYSGELILLSIAKHEKFTGVAMT
Zm00001d021799	*ZmFAR1-12*	MPSAPGEKDPQVIPRPATGPPLVQTLTPVNATGSPAIDPRLAQPSWPGHVVLL RPCAAWPPHLPVPLLLPHQNVDALEDVAAADVNPAIDSCDEKMLPKVNMLF DGESDAYEFYNAYAEKVGFFVRRSTLWTTSKNIITRRTFVCSREGFREKKKG AKEAKCPRPETRIGCPASLTIRLTANGKYRLTEFVPNHNHQLATASTVHMLK TKKIRRKARAARENLADDTVSTPEFENEDEAYEFYSMYAGKIGFSVRRASMT VNNENVITRRMFVCSKEGFREKKRGAKRVKKPRPETRTGCPACMVIRLGTN EKYQVTEFVTCHNHQLGAAAASDLVMASGSTENDQDDGFDQADRSPDDSV

		HKQNLIYGSTTLSSLEGRSCKRYKYTKTPRSGDVGATLEYLQKVQHDNPSFF YAVKSDDDGNFTNFFWADSKSIVDFFHFGDVVCFDSGYALQGYDRPLALFT GVNHHKQTVIFGAAIIYDESKEAFQWLLDTFKMAMNGTHPKTLLTDRSVAL SEAVAATLPATAHRYCVWQIYQNALQQLSQAFHGSKTLECNFKRCLFDCED EDEFVTAWKEMLEKYDLEDNQWLADLFSIKEKWALAYGRDAFYADMKSV QQKESLTSELKKHLSLECDLLNFFEQFERLLCDRRSAEMEADVNANQSTKKP PSMRMLRQAANAYTPSAFKMFEREFELYMDCMLYICGEMSTIFEYRISVEDK SRDHFVKFDSLNSMMNCTCKTFEFIGIPCRHMLKVLDMRNIKDLPAQYIMKR WRKDAKSGSSNGGCAFLFDGDPDFSHIKRYNFLCRMFSVAAARAATSDESF AYMENQSNILMDQIEQVIQTRPPDIADLIGANCDRTQNPVDNIVAEGIQSHTN FLSGSTDGICIMCIAGSLTFPFTLGAGTLDYR
Zm00001d022142	*ZmFAR1-13*	MMHMLVAPDRGGGELQPYVAPPAEQELELLRDNADDGLEGHVRCLRCGIS GNATPHMRRGPDGPRTLCNACGIAYRKGKMRRMIEAEPPIDEAALAKLVPE VGMEFVSEEKAYEFYNKYAGHVGFSVRKSTSHKSSENITKVRTFVCSREGYN RDKKSLEAKKPRLDTRIGCPARLIIKVTPECKYRVTDFKADHNHQLAPPSTM HMLRSQRILTELQPGEAELSDDSVVTPTTKATGDLVVRQVSFLRSLSLLPADY KNYLRSKRMKAMQPGDGGAILKYLQTMQMDNPSFFYTMQIDEDDKLTNFF WADQKSRDDFNYFGDVLCLDTTYKINGYGRPLALFLGVNHHKQTIIFGAAM LYDESFDSYKWLFDSFKIAMHGKQPAVALIDQSIPLSSAMAAAWPSTTQRIC AWHVYQNSLKHLNHVFQGSKTFAKDFGKCVFGYEDEDEFVFSWRSMLEKY DLRHNEWLSKVFAEKEQWALAYDRHIFCADIISALQAESFSSILKKFLSPQLE LLSFFKHYERAVDEHRYAELQADFQASQSYPRIPPAKMLKQTAHTYTPVVFE IFRKEFELFMDSVLFSCGEAGTTSEYKVASSEKPKEHFVRFDSSDCSCLCTCR KFEFMGIPCCHMLKVLDYRNIKELPQKYLLKRWRRTAKSANEDNEGNATNA NNGSLLIVPAPPTNHHGLQSFSAMIQFLACIRMHLIEALNAGTCRVNANDAFI PCKTPQRWPLKKHWMGRPPSRFNHACVHRVRLGAVGH
Zm00001d046441	*ZmFAR1-14*	MEYSSSEDEGLVGDFIDAEDNTFTKNIDQGTGVMASQIHGDDPSVGSMPPVI GNELLMAADVLAKNDEPRMGMEFDSDAAARAFYNAYALCFGFGIRVARSR SERRKGVEVLVMKRFVCLKEGHHRKKKPVEPSNKKKRKRLSIRDGCPAMM EVVRRGPDRWVITKLVLEHTHVIVSADRAREVQLHRLSGKFQEHENQLQEV RRNVFGDTNAQGLFNYFKKMQSDNSSFFFSIQVDSKNYVSNAVWVDARAR MAYTYFGDAVYFDTTCSQNENMLPFAAFTGVNHHGDTVVFGCALILDRTES SYGWIFETWLTAMDSRLPFSLTTDEGKGIAAAVAKVFPQCFHRLCRWRILSR CKKRLTDARTRFPGLHEELKRCVNGCDTAVIFDMLWGSILDKYGLRDDNWL QSLYEIRHKWVPAYLTSFFFAELSLTHRVETVSKFYRNNFSSRVSLNTFISRFD QYIDGLYASEAQKDITSFSPEQFLKTDMVLEKQARSIYTRAAFETFQLELVEA MQHYAVKVQDGSYMKYYVERNGDPPTRHTVFYNVAEKKAWCECCRFAFS AILCRHVLSVFLLAGVIMLPEPCITKRWTKKAKSGPELIGLNVGNGSSSPDSV ASRYNDLVRDAIKCAEKGTVSAGAFRVAKEVLRKAFMDIRGHGEKLCKDAL RSASSR
Zm00001d026301	*ZmFAR1-15*	MATPSTAGDPAPAGEPVPTPLQGPAQRRISTSRISHIVRTYLDLSSSRKRRSAP KNQPKAGDKERDAAAAETDGSKAGPSSSHPSRLLRELGIRVSRYTHEERRDII LRYMQKRSGRQIVNRAASKVPSRQALAVRRRRGAGGKFLGKDDAQITDKLE EKAEEEPELPPEVVSNAGGVPIVGMVFESEEKAYEYYVSYAGNMGFSVRKG WWEKTAKNSNRSRVYVCSREGFRSKNDTKKPRSETRVGCPARIAIKVARGG KYRVTEFVEDHNHQLAAPFDIEMLKSQRMLTKVRLGSQNASNIPPGYKNYL RSKSTKDMKPGDLRTLMDYFRRMKSDNPSFYYAIQVDENDKAANVFWADA KSIMDYHYFCDVVCLDMIHKTNDCSRPLALFLGMNHHRQMTIFGAAFLYDE SVESFKWLLETFKSAMCGKHPKTILTDGSSALKEALGLTWPGTVHRSCVWQI YQSTVKSLAHMFSAYEEFTYDFRHCVFNIEDEQDFVDTWNMIMEKYNLREN EWLTKLYEDRENWAMPYNRQIFSGEIKSLLQAENVGTKLKQYLGYDTDLTL FLKFFESSAENRRQEEIQADYQANQGVPRTPLPLLWQAVNLYTPTIFELFRKE CEQSMDCMAYGCGEFGSFSEYMITIKNKSKDQLVRFDSSDASVACTCKKFEN SGLLCCHILKVYELRNIKEIPPQYFLKRWRKDAKLVMDETDGFNFDTKSSIPG RYAALCRLFYRIAAKAAENEETFALMASQSDNLLVGVERTLLSTLSDKSSGH SLTDQLTRMAENDYLLSGGLEGIGSTGKKCEVARRRNGLDTNKRKKAKKGQ PDATDGGPTGRELNIGQASFHSEPSNASNQFIPDQLMQGHYVLGHNFGPGSS

		HNLHDNLNQFDQASSAPTLQQQPFTGNGQLTQGYPGDMHALQFVEPTPQID HQNGDEGQSSIPVWDFL
Zm00001d026485	*ZmFAR1-16*	MEEEEYSSETSNEEDGEKEGNAAESDVFRPVDVDPACLPRVGMIFDSEEDAF QFYVTYGCHAGFGITRRSNNTFDGFRYRSTFICSKGGQSRLRSGVTKPARKR GVKTGCKAKMIVKDAHFQNRWEVIVLELEHNHPLDPNLLKFKRHLKNSPFTI NPPQICESEGQQSNSALVHSSRVVDTGITSSSTQIEFKAKIDRNRKLKLAEGDL DALLDFLNKMQDQNPCFFYSLDMNEQGQLRNVFWSDAKSRSSYNYFGDVV AINVTNFSDQYDMQFVSFMGTNHHAQPVLLGCGLLAGRSLGAYVWLFGTW LRCMNAKPPHSIITNYCHDVAIAIKKVFPNARHRFCLSHILNVLPEKLEEIDNK DEIISTFTTLAYDYVTMTDFDREWQDTIQHFRLERNEWLSKLYEVRMQWAP VYVKDSFWAGMSVTDRSDSVTDYFDGWLMSGTSLKMFVEQYEEAVKGKL EKESYEDLRSAQMRPPMVTGLPVEDQAAKVYTAEIFQKFFNEIGHSFHCNYN ILERNESVVTYIVSEHVDQTNKVDYKVAYDNVQGDIWCLCRLYQSKGILCR HALTVLRQELVLMIPQKYIIHRWCKDCKQTCASISQPVSAGNQELGSYDDLY KLGHLYFAEVVEFGSMNSESKEYALSIMREVRDKVISYEKSLRDQRVDSHVS TANFAYNPVNEDFTDDALPISLSTKGWDLTQGQSKRSRKKKLATPTVLDTLK KKTKRAYNKRRNATANTLNTSATATDGITDGTNVQQNPVNEGWQLASTSAP ETFSYGVENISFDLSQYNNAPSFHWPESSSRSQLH

Supplementary Table S2. The Cis-acting elements in the promoter regions of ZmFAR1 family members.

Gene ID	Cis-acting element	Sequence	Information
ZmFAR1-1	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-1	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-1	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-1	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-1	Sp1	GGGCGG	light responsive element
ZmFAR1-1	Sp1	GGGCGG	light responsive element
ZmFAR1-1	Sp1	GGGCGG	light responsive element
ZmFAR1-1	Sp1	GGGCGG	light responsive element
ZmFAR1-1	ABRE	GACACGTACGT	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-1	ABRE	TACGGTC	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-1	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-1	RY-element	CATGCATG	cis-acting regulatory element involved in seed-specific regulation
ZmFAR1-1	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-1	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-1	GATA-motif	GATAGGG	part of a light responsive element
ZmFAR1-1	G-box	CACGAC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-1	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-1	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-1	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-1	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-1	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-1	MBS	CAACTG	MYB binding site involved in drought-inducibility

ZmFAR1-1	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-2	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-2	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-2	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-2	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-2	I-box	gGATAAGGTG	part of a light responsive element
ZmFAR1-2	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-2	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-2	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-2	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-2	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-2	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-2	GTGGC-motif	CATCGTGTGGC	part of a light responsive element
ZmFAR1-2	GT1-motif	GGTTAA	light responsive element
ZmFAR1-2	GT1-motif	GGTTAA	light responsive element
ZmFAR1-2	GT1-motif	GGTTAAT	light responsive element
ZmFAR1-2	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-2	O2-site	GATGACATGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-3	TC-rich repeats	ATTCTCTAAC	cis-acting element involved in defense and stress responsiveness
ZmFAR1-3	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-3	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-3	CAG-motif	GAAAGGCAGAC	part of a light response element
ZmFAR1-3	O2-site	GATGACATGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-3	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-3	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility

ZmFAR1-3	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-3	GCN4_motif	TGAGTCA	cis-regulatory element involved in endosperm expression
ZmFAR1-3	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-3	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-3	ABRE	AACCCGG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-3	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-3	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-3	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-3	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-3	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-3	G-box	GCCACGTGGA	cis-acting regulatory element involved in light responsiveness
ZmFAR1-3	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-3	G-box	GCCACGTGGA	cis-acting regulatory element involved in light responsiveness
ZmFAR1-3	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-3	G-box	CACGAC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-3	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-3	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-3	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-3	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-3	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-3	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-4	Gap-box	CAAATGAA(A/G)A	part of a light responsive element
ZmFAR1-4	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-4	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-4	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction

ZmFAR1-4	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-4	MRE	AACCTAA	MYB binding site involved in light responsiveness
ZmFAR1-4	TCA-element	TCAGAAGAGG	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-4	ABRE	CGTACGTGCA	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-4	TATC-box	TATCCCA	cis-acting element involved in gibberellin-responsiveness
ZmFAR1-4	TATC-box	TATCCCA	cis-acting element involved in gibberellin-responsiveness
ZmFAR1-4	ATCT-motif	AATCTAATCC	part of a conserved DNA module involved in light responsiveness
ZmFAR1-4	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-4	GA-motif	ATAGATAA	part of a light responsive element
ZmFAR1-4	GA-motif	ATAGATAA	part of a light responsive element
ZmFAR1-4	ACE	CTAACGTATT	cis-acting element involved in light responsiveness
ZmFAR1-4	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-4	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-4	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-4	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-4	TC-rich repeats	GTTTTCTTAC	cis-acting element involved in defense and stress responsiveness
ZmFAR1-5	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-5	P-box	CCTTTTG	gibberellin-responsive element
ZmFAR1-5	GT1-motif	GGTTAAT	light responsive element
ZmFAR1-5	ACE	GACACGTATG	cis-acting element involved in light responsiveness
ZmFAR1-5	GA-motif	ATAGATAA	part of a light responsive element
ZmFAR1-5	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-5	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-5	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-5	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness

ZmFAR1-5	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-5	I-box	AGATAAGG	part of a light responsive element
ZmFAR1-5	GATA-motif	AAGGATAAGG	part of a light responsive element
ZmFAR1-5	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-5	G-box	TAACACGTAG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-5	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-5	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-5	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-5	TCA-element	TCAGAAGAGG	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-5	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-5	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-5	ABRE	CGTACGTGCA	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-5	Sp1	GGGCGG	light responsive element
ZmFAR1-5	ATCT-motif	AATCTAATCC	part of a conserved DNA module involved in light responsiveness
ZmFAR1-5	TATC-box	TATCCCA	cis-acting element involved in gibberellin-responsiveness
ZmFAR1-5	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-5	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-6	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-6	ACE	CTAACGTATT	cis-acting element involved in light responsiveness
ZmFAR1-6	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-6	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-6	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-6	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-6	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-6	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility

ZmFAR1-6	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-6	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-6	GT1-motif	GGTTAA	light responsive element
ZmFAR1-6	GT1-motif	GGTTAA	light responsive element
ZmFAR1-6	GT1-motif	GGTTAA	light responsive element
ZmFAR1-6	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-6	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-6	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-6	G-Box	CACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-6	chs-CMA1a	TTACTTAA	part of a light responsive element
ZmFAR1-6	G-box	CACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-6	ABRE	CGCACGTGTC	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-6	ABRE	CACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-6	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-6	Sp1	GGGCGG	light responsive element
ZmFAR1-6	ATCT-motif	AATCTAATCC	part of a conserved DNA module involved in light responsiveness
ZmFAR1-6	ATCT-motif	AATCTAATCC	part of a conserved DNA module involved in light responsiveness
ZmFAR1-7	GT1-motif	GGTTAA	light responsive element
ZmFAR1-7	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-7	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-7	O2-site	GATGATGTGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-7	I-box	cGATAAGGCG	part of a light responsive element
ZmFAR1-7	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-7	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-7	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness

ZmFAR1-7	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-7	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-7	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-7	ABRE	GCCGCGTGGC	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-7	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-7	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-8	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-8	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-8	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-8	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-8	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-8	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-8	Sp1	GGGCGG	light responsive element
ZmFAR1-8	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-8	Gap-box	CAAATGAA(A/G)A	part of a light responsive element
ZmFAR1-8	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-8	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-8	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-8	GTGGC-motif	GATTCTGTGGC	part of a light responsive element
ZmFAR1-8	GT1-motif	GGTTAA	light responsive element
ZmFAR1-8	TC-rich repeats	GTTTTCTTAC	cis-acting element involved in defense and stress responsiveness
ZmFAR1-8	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-8	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-8	O2-site	GATGATGTGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness

ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	Sp1	GGGCGG	light responsive element
ZmFAR1-9	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-9	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-9	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-9	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-9	G-box	CACGTC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-9	G-box	TAACACGTAG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-9	chs-CMA1a	TTACTTAA	part of a light responsive element
ZmFAR1-9	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-9	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-9	P-box	CCTTTTG	gibberellin-responsive element
ZmFAR1-9	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-9	CAG-motif	GAAAGGCAGAC	part of a light response element
ZmFAR1-9	O2-site	GATGATGTGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-9	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness

ZmFAR1-9	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-9	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-10	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-10	TCA-element	CCATCTTTTT	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-10	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-10	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-10	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-10	Sp1	GGGCGG	light responsive element
ZmFAR1-10	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-10	ABRE	CACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-10	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-10	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-10	ABRE	AACCCGG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-10	G-box	CCACGTAA	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	G-box	CACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	G-box	CACGAC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	G-Box	CACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	G-Box	CACGTT	cis-acting regulatory element involved in light responsiveness
ZmFAR1-10	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-10	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-10	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-10	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-10	O2-site	GATGACATGG	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-10	ACE	GACACGTATG	cis-acting element involved in light responsiveness

ZmFAR1-10	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-10	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-10	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-10	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-11	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-11	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-11	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-11	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-11	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-11	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-11	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-11	GT1-motif	GGTTAAT	light responsive element
ZmFAR1-11	GT1-motif	GGTTAA	light responsive element
ZmFAR1-11	GT1-motif	GGTTAA	light responsive element
ZmFAR1-11	GT1-motif	GGTTAAT	light responsive element
ZmFAR1-11	GT1-motif	GGTTAA	light responsive element
ZmFAR1-11	P-box	CCTTTTG	gibberellin-responsive element
ZmFAR1-11	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-11	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-11	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-11	G-box	CACGTC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-11	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-11	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-11	TATC-box	TATCCCA	cis-acting element involved in gibberellin-responsiveness
ZmFAR1-11	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness

ZmFAR1-11	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-11	TCA-element	TCAGAAGAGG	cis-acting element involved in salicylic acid responsiveness
ZmFAR1-11	RY-element	CATGCATG	cis-acting regulatory element involved in seed-specific regulation
ZmFAR1-12	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-12	GTGGC-motif	CAGCGTGTGGC	part of a light responsive element
ZmFAR1-12	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-12	TCT-motif	TCTTAC	part of a light responsive element
ZmFAR1-12	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-12	GCN4_motif	TGAGTCA	cis-regulatory element involved in endosperm expression
ZmFAR1-12	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-12	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-12	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-12	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-12	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-12	chs-CMA1a	TTACTTAA	part of a light responsive element
ZmFAR1-12	G-box	CACGAC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-12	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-12	AuxRR-core	GGTCCAT	cis-acting regulatory element involved in auxin responsiveness
ZmFAR1-12	AuxRR-core	GGTCCAT	cis-acting regulatory element involved in auxin responsiveness
ZmFAR1-12	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-12	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-12	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	GA-motif	ATAGATAA	part of a light responsive element

ZmFAR1-12	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-12	Sp1	GGGCGG	light responsive element
ZmFAR1-12	Sp1	GGGCGG	light responsive element
ZmFAR1-12	Sp1	GGGCGG	light responsive element
ZmFAR1-12	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-12	MRE	AACCTAA	MYB binding site involved in light responsiveness
ZmFAR1-12	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-13	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-13	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-13	GT1-motif	GGTTAA	light responsive element
ZmFAR1-13	TC-rich repeats	GTTTTCTTAC	cis-acting element involved in defense and stress responsiveness
ZmFAR1-13	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-13	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-13	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-13	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-13	AE-box	AGAAACAA	part of a module for light response
ZmFAR1-13	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-13	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-13	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-13	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-13	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-13	GATA-motif	AAGGATAAGG	part of a light responsive element
ZmFAR1-13	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness

ZmFAR1-13	G-box	TAACACGTAG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-13	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-13	I-box	GTATAAGGCC	part of a light responsive element
ZmFAR1-13	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-13	G-Box	CACGTT	cis-acting regulatory element involved in light responsiveness
ZmFAR1-14	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-14	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-14	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-14	GT1-motif	GGTTAA	light responsive element
ZmFAR1-14	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-14	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-14	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-14	MRE	AACCTAA	MYB binding site involved in light responsiveness
ZmFAR1-14	ATCT-motif	AATCTAATCC	part of a conserved DNA module involved in light responsiveness
ZmFAR1-14	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-14	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-14	ABRE	GCAACGTGTC	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-14	Sp1	GGGCGG	light responsive element
ZmFAR1-14	Sp1	GGGCGG	light responsive element
ZmFAR1-14	Sp1	GGGCGG	light responsive element
ZmFAR1-14	Sp1	GGGCGG	light responsive element
ZmFAR1-14	Sp1	GGGCGG	light responsive element
ZmFAR1-14	GATA-motif	AAGGATAAGG	part of a light responsive element
ZmFAR1-14	GATA-motif	AAGATAAGATT	part of a light responsive element
ZmFAR1-14	G-box	CACGAC	cis-acting regulatory element involved in light responsiveness

ZmFAR1-14	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-15	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-15	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-15	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-15	AE-box	AGAAACAA	part of a module for light response
ZmFAR1-15	AE-box	AGAAACAA	part of a module for light response
ZmFAR1-15	AE-box	AGAAACAA	part of a module for light response
ZmFAR1-15	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-15	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-15	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-15	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-15	TATC-box	TATCCCA	cis-acting element involved in gibberellin-responsiveness
ZmFAR1-15	TGA-element	AACGAC	auxin-responsive element
ZmFAR1-15	GATA-motif	GATAGGG	part of a light responsive element
ZmFAR1-15	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-15	G-box	CCACGTAA	cis-acting regulatory element involved in light responsiveness
ZmFAR1-15	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-15	chs-CMA1a	TTACTTAA	part of a light responsive element
ZmFAR1-15	I-box	gGATAAGGTG	part of a light responsive element
ZmFAR1-15	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-15	GT1-motif	GGTTAA	light responsive element
ZmFAR1-15	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-15	O2-site	GATGA(C/T)(A/G)TG(A/G)	cis-acting regulatory element involved in zein metabolism regulation
ZmFAR1-15	ACE	CTAACGTATT	cis-acting element involved in light responsiveness
ZmFAR1-15	MBS	CAACTG	MYB binding site involved in drought-inducibility

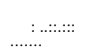
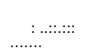
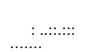
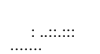
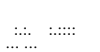
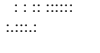
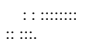
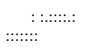
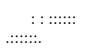
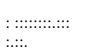
ZmFAR1-15	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-15	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-16	ACE	GACACGTATG	cis-acting element involved in light responsiveness
ZmFAR1-16	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-16	MBS	CAACTG	MYB binding site involved in drought-inducibility
ZmFAR1-16	GC-motif	CCCCCG	enhancer-like element involved in anoxic specific inducibility
ZmFAR1-16	TCCC-motif	TCTCCCT	part of a light responsive element
ZmFAR1-16	GT1-motif	GGTTAAT	light responsive element
ZmFAR1-16	GT1-motif	GGTTAA	light responsive element
ZmFAR1-16	LTR	CCGAAA	cis-acting element involved in low-temperature responsiveness
ZmFAR1-16	GATA-motif	GATAGGA	part of a light responsive element
ZmFAR1-16	G-box	TAACACGTAG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-16	G-box	TACGTG	cis-acting regulatory element involved in light responsiveness
ZmFAR1-16	G-box	CAGACGTGGCA	cis-acting regulatory element involved in light responsiveness
ZmFAR1-16	G-box	CACGTC	cis-acting regulatory element involved in light responsiveness
ZmFAR1-16	ARE	AAACCA	cis-acting regulatory element essential for the anaerobic induction
ZmFAR1-16	GCN4_motif	TGAGTCA	cis-regulatory element involved in endosperm expression
ZmFAR1-16	CGTCA-motif	CGTCA	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-16	GARE-motif	TCTGTTG	gibberellin-responsive element
ZmFAR1-16	CAT-box	GCCACT	cis-acting regulatory element related to meristem expression
ZmFAR1-16	AuxRR-core	GGTCCAT	cis-acting regulatory element involved in auxin responsiveness
ZmFAR1-16	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-16	Box 4	ATTAAT	part of a conserved DNA module involved in light responsiveness
ZmFAR1-16	TGACG-motif	TGACG	cis-acting regulatory element involved in the MeJA-responsiveness
ZmFAR1-16	Sp1	GGGCGG	light responsive element

ZmFAR1-16	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness
ZmFAR1-16	ABRE	ACGTG	cis-acting element involved in the abscisic acid responsiveness

Supplementary Table S3. The interactions between miRNAs and putative target *ZmFAR1* genes

miRNA_Acc.	Target_Acc.	Expectation	UPE$	miRNA_start	miRNA_end	Target_start	Target_end	miRNA_aligned_fragment	alignment	Target_aligned_fragment	Inhibition	Target_Desc.	Multiplicity
miR156a-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156b-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156c	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156d-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156e-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156f-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156g-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156h-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156i-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR156l-5p	*ZmFAR1-5*	3	-1	1	20	2715	2734	UGACAGAAGAGAGUGAGCAC	::::.::::::.:: :: :.:	UUGCUUACUCUUUUCUUUUA	Cleavage	reverse complement	1
miR160a-3p	*ZmFAR1-2*	3	-1	1	21	2527	2547	GCGUGCAAGGGGCCAAGCAUG	: : ::::::.: ::::.::	UCUUCAUGGCCCUUUGCAUGC	Cleavage	reverse complement	1
miR160a-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGCUCCCUGUAUGCCA	::::.:: ::.: ::::::.	ACGCAUGCACGGGGCCAGGCG	Cleavage	reverse complement	1
miR160b-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGCUCCCUGUAUGCCA	::::.:: ::.: ::::::.	ACGCAUGCACGGGGCCAGGCG	Cleavage	reverse complement	1
miR160c-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGCUCCCUGUAUGCCA	::::.:: ::.: ::::::.	ACGCAUGCACGGGGCCAGGCG	Cleavage	reverse complement	1

miR160d-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGC UCCCUGUA UGCCA		ACGCAUG CACGGGG CCAGGCG	Cleavage	reverse complement	1
miR160e	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGC UCCCUGUA UGCCA		ACGCAUG CACGGGG CCAGGCG	Cleavage	reverse complement	1
miR160f-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGC UCCCUGUA UGCCG		ACGCAUG CACGGGG CCAGGCG	Cleavage	reverse complement	1
miR160g-5p	*ZmFAR1-2*	3	-1	1	21	6766	6786	UGCCUGGC UCCCUGUA UGCCA		ACGCAUG CACGGGG CCAGGCG	Cleavage	reverse complement	1
miR159e-3p	*ZmFAR1-9*	3.5	-1	1	21	4627	4647	AUUGGUUU GAAGGGAG CUCCA		CGGAGCU CAUUUCA AAUUGAU	Cleavage		1
miR168a-3p	*ZmFAR1-8*	3.5	-1	1	20	626	645	CCCGCCUU GCACCAAG UGAA		GUUAUCA GGUGCAA GGUGGG	Cleavage	reverse complement	1
miR396a-3p	*ZmFAR1-11*	3.5	-1	1	21	2648	2668	GUUCAAUA AAGCUGUG GGAAA		AUUUUUA CCGCUUU AUUGAAU	Cleavage		1
miR396b-3p	*ZmFAR1-11*	3.5	-1	1	21	2648	2668	GUUCAAUA AAGCUGUG GGAAA		AUUUUUA CCGCUUU AUUGAAU	Cleavage		1
miR827-5p	*ZmFAR1-5*	3.5	-1	1	21	947	967	UUUGUUGG UGGUCAUU UAACC		GUUUGAA CAACCAC CGACAAA	Cleavage	reverse complement	1
miR156j-5p	*ZmFAR1-5*	4	-1	1	21	2714	2734	UGACAGAA GAGAGAGA GCACA		AUUGCUU ACUCUUU UCUUUUA	Cleavage	reverse complement	1
miR156k-5p	*ZmFAR1-5*	4	-1	1	20	2715	2734	UGACAGAA GAGAGCGA GCAC		UUGCUUA CUCUUUU CUUUUA	Cleavage	reverse complement	1
miR166b-5p	*ZmFAR1-15*	4	-1	1	21	1350	1370	GGAAUGUU GUCUGGUU CAAGG		GGUUUUA CUAGACA ACAUUUG	Cleavage	reverse complement	1
miR166d-5p	*ZmFAR1-15*	4	-1	1	21	1350	1370	GGAAUGUU GUCUGGUU CAAGG		GGUUUUA CUAGACA ACAUUUG	Cleavage	reverse complement	1
miR166g-5p	*ZmFAR1-15*	4	-1	1	21	1350	1370	GGAAUGUU GUCUGGUU GGAGA		GGUUUUA CUAGACA ACAUUUG	Cleavage	reverse complement	2
miR167a-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUA		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167b-3p	*ZmFAR1-9*	4	-1	1	23	4051	4073	GAUCAUGC UGUGACAG UUUCACU		UUAUACA CUGUCAC AGCGAGA UG	Cleavage		1

miR167b-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUA		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167c-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUA		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167d-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUA		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167e-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167f-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167g-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167h-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167i-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR167j-5p	*ZmFAR1-12*	4	-1	1	21	3486	3506	UGAAGCUG CCAGCAUG AUCUG		ACUAAUG UGUUGGU AGCUUCA	Cleavage		1
miR168b-3p	*ZmFAR1-8*	4	-1	1	20	626	645	CCCGCCUU GCAUCAAG UGAA		GUUAUCA GGUGCAA GGUGGG	Cleavage	reverse complement	1
miR2275c-5p	*ZmFAR1-4*	4	-1	1	21	5570	5590	AGGAUUAG AGGGACUU GAACC		UUUUCAC AUCUUUC UGAUCUU	Cleavage	reverse complement	1
miR395m-5p	*ZmFAR1-12*	4	-1	1	22	2547	2568	GUUCCUUU CAAACACU UCACAU		CUUUAAA AUGUUUG AGAGGGA A	Cleavage		1
miR398a-5p	*ZmFAR1-4*	4	-1	1	21	6091	6111	GGGGCGAA CUGAGAAC ACAUG		UCUCUUU UCUCAGU UCUCCCU	Cleavage	reverse complement	1
miR399b-5p	*ZmFAR1-13*	4	-1	1	21	325	345	GUGCAGCU CUCCUCUG GCAUG		AGGGGCG GAGGGGA GCUGCAG	Cleavage		1
miR399f-3p	*ZmFAR1-8*	4	-1	1	21	849	869	UGCCAAAG GAAAUUUG CCCCG		GAUGACU AAUUUCU UUUGGCG	Cleavage	reverse complement	1
miR482-3p	*ZmFAR1-10*	4	-1	1	20	3851	3870	UCUUCCUU GUUCCUCC CAUU		AUUGGGA GGAGCAA AGGAGG	Cleavage		2

miR156a-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156b-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156c	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156d-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156e-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156f-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156g-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156h-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156i-3p	*ZmFAR1-4*	4.5	-1	1	22	6417	6438	GCUCACUGCUCUAUCUGUCAUC	: :.:::::: ::. : ::.::	CAGGGCAGAUAUAGUAAUGGGC	Translation	reverse complement	1
miR156i-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR156j-5p	*ZmFAR1-15*	4.5	-1	1	21	4394	4414	UGACAGAAGAGAGAGAGCACA	:: :.:.:.:.: :::: ::	CCUGGUUUUUUUUUUCUGGCA	Cleavage	reverse complement	1
miR156l-3p	*ZmFAR1-4*	4.5	-1	1	22	6417	6438	GCUCACUGCUCUAUCUGUCACC	:.:::::: : ::.: ::.::	CAGGGCAGAUAUAGUAAUGGGC	Translation	reverse complement	1
miR156l-5p	*ZmFAR1-4*	4.5	-1	1	20	6083	6102	UGACAGAAGAGAGUGAGCAC	::. .:.::::::. : :::	CUGUGUAUUCUCUUUUCUCA	Cleavage	reverse complement	1
miR159a-3p	*ZmFAR1-10*	4.5	-1	1	21	7993	8013	UUUGGAUUGAAGGGAGCUCUG	: :::: ::::. ::::.:::	AACAGCUGGCUUUAAUCCGAA	Cleavage		1
miR159b-3p	*ZmFAR1-10*	4.5	-1	1	21	7993	8013	UUUGGAUUGAAGGGAGCUCUG	: :::: ::::. ::::.:::	AACAGCUGGCUUUAAUCCGAA	Cleavage		1
miR159e-3p	*ZmFAR1-16*	4.5	-1	1	21	700	720	AUUGGUUUGAAGGGAGCUCCA	: : : .::::: .::::.:	GAGUGAUGUCUUCAGACCAGU	Cleavage		1

miR159e-5p	*ZmFAR1-15*	4.5	-1	1	21	318	338	CAGCUCCU GCAGCAUC UGUUC	:.: :::: : .::::::::	UCUCGGC UGCUCCG GGAGCUG	Translatio n	reverse complement	1
miR159f-3p	*ZmFAR1-10*	4.5	-1	1	21	7993	8013	UUUGGAUU GAAGGGAG CUCUG	: :::: ::: :::::.::	AACAGCU GGCUUUA AUCCGAA	Cleavage		1
miR159h-3p	*ZmFAR1-10*	4.5	-1	1	21	2981	3001	UUUGGAGU GAAGGGAG CUCUG	.: ::: .:.:: :::::.	GGGUGCU AUUUUUA CUCCAGG	Cleavage		1
miR159i-3p	*ZmFAR1-10*	4.5	-1	1	21	2981	3001	UUUGGAGU GAAGGGAG CUCUG	.: ::: .:.:: :::::.	GGGUGCU AUUUUUA CUCCAGG	Cleavage		1
miR159j-3p	*ZmFAR1-10*	4.5	-1	1	21	7993	8013	UUUGGAUU GAAGGGAG CUCUG	: :::: ::: :::::.::	AACAGCU GGCUUUA AUCCGAA	Cleavage		1
miR159k-3p	*ZmFAR1-10*	4.5	-1	1	21	7993	8013	UUUGGAUU GAAGGGAG CUCUG	: :::: ::: :::::.::	AACAGCU GGCUUUA AUCCGAA	Cleavage		1
miR160b-3p	*ZmFAR1-2*	4.5	-1	1	21	2527	2547	GCGUGCAA GGAGCCAA GCAUG	: : :::: :.: ::::.::	UCUUCAU GGCCCUU UGCAUGC	Translatio n	reverse complement	1
miR160g-3p	*ZmFAR1-2*	4.5	-1	1	21	2527	2547	GCGUGCAA GGAGCCAA GCAUG	: : :::: :.: ::::.::	UCUUCAU GGCCCUU UGCAUGC	Translatio n	reverse complement	1
miR164g-3p	*ZmFAR1-10*	4.5	-1	1	21	6379	6399	CACGUGCU CCCCUUCU CCACC	:: ::.::::: .:: ::::	AAAGGCG AGGGGGG GCUCGUG	Cleavage		1
miR166a-5p	*ZmFAR1-5*	4.5	-1	1	21	4004	4024	GGAAUGUU GUCUGGCU CGGGG	.:::::::::: ::.::..	AGGUGAG CCAGACC ACGUUUU	Cleavage	reverse complement	1
miR166b-5p	*ZmFAR1-5*	4.5	-1	1	21	4004	4024	GGAAUGUU GUCUGGUU CAAGG	:::.:::::: ::.::..	AGGUGAG CCAGACC ACGUUUU	Cleavage	reverse complement	1
miR166c-5p	*ZmFAR1-5*	4.5	-1	1	21	4004	4024	GGAAUGUU GUCUGGCU CGAGG	.:::::::::: ::.::..	AGGUGAG CCAGACC ACGUUUU	Cleavage	reverse complement	1
miR166d-5p	*ZmFAR1-5*	4.5	-1	1	21	4004	4024	GGAAUGUU GUCUGGUU CAAGG	:::.:::::: ::.::..	AGGUGAG CCAGACC ACGUUUU	Cleavage	reverse complement	1
miR166g-5p	*ZmFAR1-15*	4.5	-1	1	21	3746	3766	GGAAUGUU GUCUGGUU GGAGA	:::..:::::. ::: :::.	GAGCCAG UCAGAUA ACCUUCU	Cleavage	reverse complement	2
miR166j-5p	*ZmFAR1-12*	4.5	-1	1	22	1541	1562	GGUUUGUU UGUCUGGU UCAAGG	:: .:.:::.:: .:.:.:.:	GAUUUGA UCAGGCA GAUAGAU C	Cleavage		1
miR166j-5p	*ZmFAR1-3*	4.5	-1	1	22	2656	2677	GGUUUGUU UGUCUGGU UCAAGG	: :: :.:::..:: :..:::.	GCAUGUA UCAGGUG AAUGAAC U	Cleavage		1

miR166m-5p	*ZmFAR1-4*	4.5	-1	1	21	2267	2287	GGAAUGUU GGCUGGCU CGAGG	: :: : ::::: :: :.:::.	CAUCAAC CCAGCAA ACGUUCU	Cleavage	reverse complement	1
miR167e-3p	*ZmFAR1-5*	4.5	-1	1	22	3341	3362	GAUCAUGC UGUGCAGU UUCAUC	:::::: :.:: .:.:::::	AAUGAAA GAGUACG GUAUGAU G	Cleavage	reverse complement	1
miR168a-5p	*ZmFAR1-3*	4.5	-1	1	21	265	285	UCGCUUGG UGCAGAUC GGGAC	:::::. .::::::: : :::.:.	GUCCUCG UCUGCAA CAAGUGG	Cleavage		1
miR168b-5p	*ZmFAR1-3*	4.5	-1	1	21	265	285	UCGCUUGG UGCAGAUC GGGAC	:::::. .::::::: : :::.:.	GUCCUCG UCUGCAA CAAGUGG	Cleavage		1
miR169f-3p	*ZmFAR1-4*	4.5	-1	1	21	5883	5903	GGCAUGUC UUCCUUGG CUACU	:::: .::::::: :: ::	CGUAGAU GAGGAAG ACGAGCU	Cleavage	reverse complement	1
miR169n-3p	*ZmFAR1-16*	4.5	-1	1	20	1893	1912	GGCAGGCC UUCUUGGC UAAG	.::.: ::.::: :.: ::.:	UUUGGGC AGGAAUG UCUGUC	Cleavage		1
miR169q-3p	*ZmFAR1-4*	4.5	-1	1	19	2471	2489	GGCAGGCC UUCUGGCU AAG	.::.:...:. ::::: :::	UUUGGUU GGGUGGC CUGCC	Cleavage	reverse complement	1
miR171g-5p	*ZmFAR1-11*	4.5	-1	1	21	3035	3055	UAUUGACU UGGCUCAU CUCUC	: :. ::: :::::: :...::	GUGGAAU GUGCCAA GUUGGUA	Cleavage		1
miR171n-5p	*ZmFAR1-7*	4.5	-1	1	21	1864	1884	UAUUGGUG AGGUUCAA UCCGA	:.: .: :.::::: ::::.::	UUGAGUA CAGCCUC ACCAGUA	Cleavage	reverse complement	1
miR2275b-5p	*ZmFAR1-10*	4.5	-1	1	21	7958	7978	AGGAUUAG AGGCAACU GAACC	: :::. ::: ::.: :::::	GCUUCGC UUGGCUU UAAUCCG	Translation		1
miR2275c-5p	*ZmFAR1-15*	4.5	-1	1	21	4375	4395	AGGAUUAG AGGGACUU GAACC	:::::.::::::. .: .::::	GGUUCGA GUCCUGU UGAUCCC	Cleavage	reverse complement	1
miR2275c-5p	*ZmFAR1-5*	4.5	-1	1	21	3231	3251	AGGAUUAG AGGGACUU GAACC	: :::::::.:. :::::	AUUCCAA GUCCUUU UAAUCAG	Cleavage	reverse complement	1
miR2275c-5p	*ZmFAR1-7*	4.5	-1	1	21	596	616	AGGAUUAG AGGGACUU GAACC	:::.:::::::. :.::.	AAUUCGA GUCCCUU GAGUCUG	Cleavage	reverse complement	1
miR2275c-5p	*ZmFAR1-9*	4.5	-1	1	21	5119	5139	AGGAUUAG AGGGACUU GAACC	::::: ::.:: :.:::	UAUUCAA CUCCUUC AAGUCCC	Cleavage		1
miR2275d-3p	*ZmFAR1-9*	4.5	-1	1	22	4569	4590	UUUGUUUU CCUCUAAU AUCUCA	:::.:::::: :.:: :.:	ACAGAUG UUAGAGA AGAAGAG A	Cleavage		1
miR2275d-3p	*ZmFAR1-2*	4.5	-1	1	22	4415	4436	UUUGUUUU CCUCUAAU AUCUCA	: ::: :: : ::::::::	UCUGCUA UGAGUGG	Translation	reverse complement	1

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miR2275d-5p	*ZmFAR1-2*	4.5	-1	1	21	1832	1852	AGAGUUGGAGGAAAGAAAACU	: ::::::::: :. :::	UUUCUUCUUUCCUCUCCCUCU	Cleavage	reverse complement	1
miR394a-3p	*ZmFAR1-6*	4.5	-1	1	20	2845	2864	AGGUGGGCAUACUGCCAAUG	::: ::: ::: .::.:::	AAUUUUCAGAAUGUCCGCCU	Translation		1
miR394b-3p	*ZmFAR1-6*	4.5	-1	1	20	2845	2864	AGGUGGGCAUACUGCCAAUG	::: ::: ::: .::.:::	AAUUUUCAGAAUGUCCGCCU	Translation		1
miR395a-5p	*ZmFAR1-3*	4.5	-1	1	23	3105	3127	GUUCUCCUCAAACCACUUCAGUU	::.::::: : ::::.:::.	UUAGGAGGUGGAUCGAGGGGAAU	Translation		1
miR395c-3p	*ZmFAR1-4*	4.5	-1	1	21	1922	1942	GUGAAGUGUUUGGAGGAACUC	::.::::. :::.:::::	CAACUCUUCCAGACAUUUCAG	Cleavage	reverse complement	1
miR395k-3p	*ZmFAR1-4*	4.5	-1	1	21	3103	3123	GUGAAGUGUUUGAGGAAACUC	::::::.::. ...:::::	AUAUUUCCUUAAGUGUUUCAA	Cleavage	reverse complement	1
miR395l-3p	*ZmFAR1-4*	4.5	-1	1	21	1922	1942	GUGAAGUGUUUGGAGGAACUC	::.::::. :::.:::::	CAACUCUUCCAGACAUUUCAG	Cleavage	reverse complement	1
miR395m-3p	*ZmFAR1-4*	4.5	-1	1	21	1922	1942	GUGAAGUGUUUGGAGGAACUC	::.::::. :::.:::::	CAACUCUUCCAGACAUUUCAG	Cleavage	reverse complement	1
miR395o-3p	*ZmFAR1-14*	4.5	-1	1	21	346	366	GUGAAGUGUUUGGGUGAACUC	:: ::::: :. ::::::	AUGUACACCCAUAUCCUUCAC	Translation		1
miR396c	*ZmFAR1-1*	4.5	-1	1	22	4301	4322	UUCCACAGGCUUUCUUGAACUG	.: : ::::: .::: ::::::	UAAUACAAGAUGGCCAGUGGAA	Cleavage	reverse complement	1
miR396d	*ZmFAR1-1*	4.5	-1	1	22	4301	4322	UUCCACAGGCUUUCUUGAACUG	.: : ::::: .::: ::::::	UAAUACAAGAUGGCCAGUGGAA	Cleavage	reverse complement	1
miR396e-3p	*ZmFAR1-6*	4.5	-1	1	21	814	834	GGUCAAGAAAGCCGUGGGAAG	:::: ::: : ::::::..	ACGCCCAGGGCCUUCUUGAUU	Translation		1
miR396g-3p	*ZmFAR1-11*	4.5	-1	1	21	2648	2668	GUUCAAGAAAGCUGUGGAAGA	.::..:: ::::: :::::.	AUUUUUACCGCUUUAUUGAAU	Cleavage		1
miR397a-3p	*ZmFAR1-10*	4.5	-1	1	22	256	277	UAGCCGUUAGCGCUCAUUAACU	::.:: :.: ::::: ::::	GUUUGAUAUGUGCUAACAGCUA	Cleavage		1
miR399b-5p	*ZmFAR1-10*	4.5	-1	1	21	8952	8972	GUGCAGCUCUCCUCUGGCAUG	::: ::: ::::::: :: :.	CAUACCAAAGGAGAGCUCUAU	Cleavage		1

miR399e-5p	*ZmFAR1-4*	4.5	-1	1	21	5625	5645	GGGCUUCU CUUUCUUG GCAGG	.::::::: :.:::. ::::..	UCUGCCA UGGAAGG CAAGCUU	Cleavage	reverse complement	1
miR399h-5p	*ZmFAR1-13*	4.5	-1	1	21	325	345	GUGCAGUU CUCCUCUG GCACG	: : :.:::::.:. :::::	AGGGGCG GAGGGGA GCUGCAG	Cleavage		1
miR399i-5p	*ZmFAR1-13*	4.5	-1	1	21	325	345	GUGCGGCU CUCCUCUG GCAUG	: : :::::.: :::.:::	AGGGGCG GAGGGGA GCUGCAG	Cleavage		1
miR528a-5p	*ZmFAR1-4*	4.5	-1	1	21	966	986	UGGAAGGG GCAUGCAG AGGAG	::::: :: ::: .::::.	ACCCUCU CCAGGCC UCUUCUC	Translatio n	reverse complement	1
miR528b-5p	*ZmFAR1-4*	4.5	-1	1	21	966	986	UGGAAGGG GCAUGCAG AGGAG	::::: :: ::: .::::.	ACCCUCU CCAGGCC UCUUCUC	Translatio n	reverse complement	1
miR529-3p	*ZmFAR1-16*	4.5	-1	1	21	629	649	GCUGUACC CUCUCUCU UCUUC	.:::::::. :: :::.:::	AUGGAAG AGGAAGA GUAUAGC	Translatio n		1
miR529-5p	*ZmFAR1-4*	4.5	-1	1	21	6080	6100	AGAAGAGA GAGAGUAC AGCCU	:: ::::.. .:::: :.::::	AGCCUGU GUAUUCU CUUUUCU	Cleavage	reverse complement	1
miR827-5p	*ZmFAR1-12*	4.5	-1	1	21	371	391	UUUGUUGG UGGUCAUU UAACC	: : :::: ::.::: :: :::	GUUCAAA UUACUAC CAAAAAA	Cleavage		1
miR1432-5p	*ZmFAR1-6*	5	-1	1	21	2616	2636	CUCAGGAG AGAUGACA CCGAC	::. ::::::::: ::.. :::	GUUUUUG UCAUCUC UUUGGAG	Cleavage		1
miR1432-5p	*ZmFAR1-13*	5	-1	1	21	3976	3996	CUCAGGAG AGAUGACA CCGAC	: :: ::::::: :: :::	AACAGUC UCAUCUC UCACGAG	Cleavage		1
miR156d-3p	*ZmFAR1-12*	5	-1	1	22	944	965	GCUCACUU CUCUUUCU GUCAGC	:. ::::. : :::: ::::	UUCGGGA GAAGAAG AAGGGAG C	Translatio n		1
miR156f-3p	*ZmFAR1-12*	5	-1	1	22	944	965	GCUCACUU CUCUUUCU GUCAGC	:. ::::. : :::: ::::	UUCGGGA GAAGAAG AAGGGAG C	Translatio n		1
miR156g-3p	*ZmFAR1-12*	5	-1	1	22	944	965	GCUCACUU CUCUUUCU GUCAGC	:. ::::. : :::: ::::	UUCGGGA GAAGAAG AAGGGAG C	Translatio n		1
miR156i-3p	*ZmFAR1-3*	5	-1	1	22	2939	2960	GCUCACUG CUCUAUCU GUCAUC	::::::::: :: :::::	UUCUACA GAUAGAG GAGUGAC U	Cleavage		1
miR156j-5p	*ZmFAR1-4*	5	-1	1	21	627	647	UGACAGAA GAGAGAGA GCACA	: : ::.:::.: ::: ::	AUUCCCC UUUCUUU UCUUUCG	Cleavage	reverse complement	1

miR156k-3p	*ZmFAR1-10*	5	-1	1	22	5376	5397	GCUCGCUU CUCUUUCU GUCAGC	:.:.: .:. ::.:::.:	GGCGGCG GCGAGGG AGGCGGG G	Cleavage		1
miR156k-3p	*ZmFAR1-12*	5	-1	1	22	944	965	GCUCGCUU CUCUUUCU GUCAGC	:. ::::. : :::: ::::	UUCGGGA GAAGAAG AAGGGAG C	Translatio n		1
miR156l-3p	*ZmFAR1-3*	5	-1	1	22	2939	2960	GCUCACUG CUCUAUCU GUCACC	:::::::: :: :::::	UUCUACA GAUAGAG GAGUGAC U	Cleavage		1
miR159b-5p	*ZmFAR1-15*	5	-1	1	21	480	500	GUGCUCCC UUCAAACC AAUAA	: ::::: ::: :: ::.::.:	UGAUUGG AUUGCAG AGGGCGC	Translatio n	reverse complement	1
miR159e-3p	*ZmFAR1-5*	5	-1	1	21	4855	4875	AUUGGUUU GAAGGGAG CUCCA	:.:: .::::.. .:.:::	CCGGGCC UCCUUUG GAUCAAA	Cleavage	reverse complement	1
miR159g-3p	*ZmFAR1-5*	5	-1	1	21	582	602	UUUGGAGU GAAGGGAG UUCUG	::.::::.: ... ::::.::	GAGGACU CUUUCUG UUCCGAA	Translatio n	reverse complement	2
miR159g-3p	*ZmFAR1-5*	5	-1	1	21	4045	4065	UUUGGAGU GAAGGGAG UUCUG	:.::: ::.:: :: ::.::	CGGAACG CCUUUGA CCCCGAA	Cleavage	reverse complement	2
miR159g-3p	*ZmFAR1-8*	5	-1	1	21	367	387	UUUGGAGU GAAGGGAG UUCUG	::.::: ::. ..: :::::.	AAGGACU ACUUCUG CUCCAAG	Translatio n	reverse complement	1
miR159g-3p	*ZmFAR1-2*	5	-1	1	21	3301	3321	UUUGGAGU GAAGGGAG UUCUG	.: ::::: : :.. :::::::	AGGUACU CCAUCCG UUCCAAA	Translatio n	reverse complement	1
miR159g-3p	*ZmFAR1-10*	5	-1	1	21	2981	3001	UUUGGAGU GAAGGGAG UUCUG	.: .:: ..::.:: :::::.	GGGUGCU AUUUUUA CUCCAGG	Cleavage		1
miR159h-3p	*ZmFAR1-6*	5	-1	1	21	507	527	UUUGGAGU GAAGGGAG CUCUG	:::: :.: ::..: :::::.	AAGAGGU UCGUUUG CUCCAGG	Cleavage		1
miR159i-3p	*ZmFAR1-6*	5	-1	1	21	507	527	UUUGGAGU GAAGGGAG CUCUG	:::: :.: ::..: :::::.	AAGAGGU UCGUUUG CUCCAGG	Cleavage		1
miR159j-5p	*ZmFAR1-15*	5	-1	1	21	480	500	GUGCUCCC UUCAAACC AAUAA	: ::::: ::: :: ::.::.:	UGAUUGG AUUGCAG AGGGCGC	Translatio n	reverse complement	1
miR159k-5p	*ZmFAR1-15*	5	-1	1	21	480	500	GUGCUCCC UUCAAACC AAUAA	: ::::: ::: :: ::.::.:	UGAUUGG AUUGCAG AGGGCGC	Translatio n	reverse complement	1
miR160c-3p	*ZmFAR1-10*	5	-1	1	21	2794	2814	GCGUGCAU GGUGCCAA GCAUA	::.:: ::: .: :::: ::	GUUGUUU UGCAAUA UGCAGGC	Translatio n		1

miR160c-3p	*ZmFAR1-9*	5	-1	1	21	6	26	GCGUGCAU GGUGCCAA GCAUA	.: :: :::: .: :::::	CGUCCUC CGCACCG UCCACGC	Cleavage		1
miR160f-3p	*ZmFAR1-2*	5	-1	1	21	2527	2547	GCGUGCGA GGUGCCAG GCAUG	: : :::: :.: .:::.::	UCUUCAU GGCCCUU UGCAUGC	Translatio n	reverse complement	1
miR164a-3p	*ZmFAR1-9*	5	-1	1	21	934	954	CACGUGUU CUCCUUCU CCAUC	::::: :::: :.:: ::	CUGGGAG AGGGAGA GCAAAUG	Cleavage		1
miR164c-3p	*ZmFAR1-9*	5	-1	1	21	934	954	CAUGUGCC CUUCUUCU CCAUC	:::::.:.:: ::: :::	CUGGGAG AGGGAGA GCAAAUG	Cleavage		1
miR164d-3p	*ZmFAR1-9*	5	-1	1	20	1219	1238	CACGUGGU CUCCUUCU CCAU	:::.:::::::::: :.:	UUGGGGA AGGAGAC GAUGAA	Cleavage		1
miR164d-3p	*ZmFAR1-2*	5	-1	1	20	1880	1899	CACGUGGU CUCCUUCU CCAU	:::: .:.:. :: :::	GGGGAGU GGGGGAU CAGGUG	Cleavage	reverse complement	1
miR164e-3p	*ZmFAR1-13*	5	-1	1	21	4230	4250	CAUGUGUC CGCCCUCU CCACC	:: :.: :::::: :: ..::	AGUUGGG UGGGCGG ACCUGUG	Cleavage		1
miR164h-3p	*ZmFAR1-9*	5	-1	1	21	934	954	CAUGUGCC CUUCUUCU CCAUC	:::::.:.:: ::: :::	CUGGGAG AGGGAGA GCAAAUG	Cleavage		1
miR166a-5p	*ZmFAR1-15*	5	-1	1	21	3746	3766	GGAAUGUU GUCUGGCU CGGGG	: ::.::::. ::: :::.	GAGCCAG UCAGAUA ACCUUCU	Cleavage	reverse complement	1
miR166c-5p	*ZmFAR1-15*	5	-1	1	21	3746	3766	GGAAUGUU GUCUGGCU CGAGG	: ::.::::. ::: :::.	GAGCCAG UCAGAUA ACCUUCU	Cleavage	reverse complement	1
miR166g-5p	*ZmFAR1-4*	5	-1	1	21	2116	2136	GGAAUGUU GUCUGGUU GGAGA	:::::::: .:::: : ::: :.	UCUCCAA GUAGACC ACAUCCU	Cleavage	reverse complement	1
miR166g-5p	*ZmFAR1-5*	5	-1	1	21	2375	2395	GGAAUGUU GUCUGGUU GGAGA	:::.: :::::.:.:: .. :::	UCUUCUA CCAGGUA AUGAUCC	Cleavage	reverse complement	1
miR166g-5p	*ZmFAR1-10*	5	-1	1	21	3068	3088	GGAAUGUU GUCUGGUU GGAGA	:::.:: : ::.::::.:	UAGGCAA UCAAACA GCAUUUC	Translatio n		1
miR167b-3p	*ZmFAR1-1*	5	-1	1	23	3222	3244	GAUCAUGC UGUGACAG UUUCACU	: :.::::: ::: .:.:.:.	UCCAACA UUGUCAC AUUGUGG UU	Cleavage	reverse complement	1
miR168a-5p	*ZmFAR1-8*	5	-1	1	21	337	357	UCGCUUGG UGCAGAUC GGGAC	:.. : : :::: ::::::	UACUUCA CCGGCAC CAAGCGG	Cleavage	reverse complement	1
miR168b-5p	*ZmFAR1-8*	5	-1	1	21	337	357	UCGCUUGG UGCAGAUC GGGAC	:.. : : :::: :::::.	UACUUCA CCGGCAC CAAGCGG	Cleavage	reverse complement	1

miR169a-5p	*ZmFAR1-7*	5	-1	1	21	1275	1295	CAGCCAAG GAUGACUU GCCGA		GCAGCCU GUUGUUU UUGGCUG	Cleavage	reverse complement	1
miR169b-5p	*ZmFAR1-7*	5	-1	1	21	1275	1295	CAGCCAAG GAUGACUU GCCGA		GCAGCCU GUUGUUU UUGGCUG	Cleavage	reverse complement	1
miR169c-5p	*ZmFAR1-7*	5	-1	1	21	1275	1295	CAGCCAAG GAUGACUU GCCGG		GCAGCCU GUUGUUU UUGGCUG	Cleavage	reverse complement	1
miR169f-3p	*ZmFAR1-6*	5	-1	1	21	4072	4092	GGCAUGUC UUCCUUGG CUACU		UUGACUU AAGGAAG ACUUGUC	Cleavage		1
miR169m-5p	*ZmFAR1-10*	5	-1	1	21	1480	1500	UAGCCAAG AAUGGCUU GCCUA		GCAGAAA CCUAUUC AUGGCUA	Cleavage		1
miR169n-5p	*ZmFAR1-10*	5	-1	1	21	1480	1500	UAGCCAAG AAUGGCUU GCCUA		GCAGAAA CCUAUUC AUGGCUA	Cleavage		1
miR169o-5p	*ZmFAR1-7*	5	-1	1	21	1275	1295	UAGCCAAG AAUGACUU GCCUA		GCAGCCU GUUGUUU UUGGCUG	Cleavage	reverse complement	1
miR169p-3p	*ZmFAR1-4*	5	-1	1	21	2040	2060	GGCAAGUC AUCUGGGG CUACG		AAUUGCU UCAGGUG AUUUAUC	Cleavage	reverse complement	1
miR169q-5p	*ZmFAR1-10*	5	-1	1	21	1480	1500	UAGCCAAG AAUGGCUU GCCUA		GCAGAAA CCUAUUC AUGGCUA	Cleavage		1
miR169r-3p	*ZmFAR1-11*	5	-1	1	21	649	669	GGCAAGUU GUCCUUGG CUACA		UGUAGCA GUGGCCA GCUUGCC	Translatio n		1
miR169r-5p	*ZmFAR1-7*	5	-1	1	21	1275	1295	CAGCCAAG GAUGACUU GCCGG		GCAGCCU GUUGUUU UUGGCUG	Cleavage	reverse complement	1
miR171a-5p	*ZmFAR1-1*	5	-1	1	21	3889	3909	UAUUGGCG AGGUUCAA UCAGA		CUUGAUA GCACCAU GUCAAUA	Cleavage	reverse complement	1
miR171c-5p	*ZmFAR1-4*	5	-1	1	21	2023	2043	UAUUGGUG CGGUUCAA UCAGA		CUUGAAU GAGUCGU AACAAUU	Cleavage	reverse complement	1
miR171f-5p	*ZmFAR1-9*	5	-1	1	21	3481	3501	CGAUGUUG GCAUGGCU CAAUC		AAAUGAC UCAUGGC AAUAUUG	Cleavage		1
miR171h-5p	*ZmFAR1-14*	5	-1	1	21	2138	2158	UGGUAUUG UUUCGGCU CAUGU		GAAUUGG UUGAAGC AAUGCAA	Cleavage		1
miR171i-5p	*ZmFAR1-1*	5	-1	1	21	3889	3909	UGUUGGCA CGGUUCAA UCAAA		CUUGAUA GCACCAU GUCAAUA	Cleavage	reverse complement	1

miR171k-5p	*ZmFAR1-14*	5	-1	1	21	2138	2158	UGGUAUUG UUUCGGCU CAUGU	:: :.:::::: ::::: :	GAAUUGG UUGAAGC AAUGCAA	Cleavage		1
miR172a	*ZmFAR1-1*	5	-1	1	20	3341	3360	AGAAUCUU GAUGAUGC UGCA	.:: :: ::: :::::::	CCAGGCC UCUUCAA GAUUCU	Translatio n	reverse complement	1
miR172a	*ZmFAR1-10*	5	-1	1	20	4845	4864	AGAAUCUU GAUGAUGC UGCA	:: : ::::::: .::::	AACAUCU UCAUCAA UGUUCU	Cleavage		1
miR172b-3p	*ZmFAR1-1*	5	-1	1	20	3341	3360	AGAAUCUU GAUGAUGC UGCA	.:: :: ::: :::::::	CCAGGCC UCUUCAA GAUUCU	Translatio n	reverse complement	1
miR172b-3p	*ZmFAR1-10*	5	-1	1	20	4845	4864	AGAAUCUU GAUGAUGC UGCA	:: : ::::::: .::::	AACAUCU UCAUCAA UGUUCU	Cleavage		1
miR172c-3p	*ZmFAR1-1*	5	-1	1	20	3341	3360	AGAAUCUU GAUGAUGC UGCA	.:: :: ::: :::::::	CCAGGCC UCUUCAA GAUUCU	Translatio n	reverse complement	1
miR172c-3p	*ZmFAR1-10*	5	-1	1	20	4845	4864	AGAAUCUU GAUGAUGC UGCA	:: : ::::::: .::::	AACAUCU UCAUCAA UGUUCU	Cleavage		1
miR172c-5p	*ZmFAR1-2*	5	-1	1	20	897	916	CAGCACCA CCAAGAUU CACA	::: .. .: :::::: ::::	UGUUGGG UUGGGUG GUGCUG	Translatio n	reverse complement	1
miR172d-3p	*ZmFAR1-1*	5	-1	1	20	3341	3360	AGAAUCUU GAUGAUGC UGCA	.:: :: ::: :::::::	CCAGGCC UCUUCAA GAUUCU	Translatio n	reverse complement	1
miR172d-3p	*ZmFAR1-10*	5	-1	1	20	4845	4864	AGAAUCUU GAUGAUGC UGCA	:: : ::::::: .::::	AACAUCU UCAUCAA UGUUCU	Cleavage		1
miR2118a	*ZmFAR1-12*	5	-1	1	22	930	951	UUCCUGAU GCCUCUCA UUCCUA	::. :::.:: . ::.:::.	CUCGAGA GAGGGGU UUCGGGA G	Cleavage		1
miR2118f	*ZmFAR1-15*	5	-1	1	22	5207	5228	UUCCCAAU GCCUUCCA UGCCUA	:::::: ::::::: ::	GGUAGAU GGAAGGC AUUGUAA A	Cleavage	reverse complement	1
miR2118g	*ZmFAR1-15*	5	-1	1	22	3218	3239	UUCCUGAU GCCUCCUA UUCCUA	:::::::::: :: : ::.	AGAGAAU AGGAGGC AAGAAGA G	Cleavage	reverse complement	1
miR2275a-3p	*ZmFAR1-10*	5	-1	1	22	930	951	UUUGUUUU CCUCCAAU AUCUCA	: :: .::: .::. :.:.:::	AGUGAAG UUGUGGG GAGAUAA A	Cleavage		1
miR2275a-3p	*ZmFAR1-5*	5	-1	1	22	4491	4512	UUUGUUUU CCUCCAAU AUCUCA	::.::: : ::::: .:::	CAUCAUG UUGUAGG AAACUAA A	Cleavage	reverse complement	1

miR2275a-5p	*ZmFAR1-13*	5	-1	1	21	1563	1583	AGAGUUGG AGGAAAGC AAACC	: : : ::::::: : :.:.:	UGGUCGU UUUCCUC CCAUUUU	Cleavage		1
miR2275a-5p	*ZmFAR1-2*	5	-1	1	21	2537	2557	AGAGUUGG AGGAAAGC AAACC	::::: : :.:. .::.:.:	CCUUUGC AUGCUUU UAAUUUU	Cleavage	reverse complement	1
miR2275a-5p	*ZmFAR1-4*	5	-1	1	21	632	652	AGAGUUGG AGGAAAGC AAACC	::: .:::.:. :. .:::	CCUUUCU UUUCUUU CGCUUCU	Cleavage	reverse complement	1
miR2275a-5p	*ZmFAR1-1*	5	-1	1	21	1000	1020	AGAGUUGG AGGAAAGC AAACC	::::: :.: ::::.: ::	AUUUUGC ACUUCUC CAGCCCU	Cleavage	reverse complement	1
miR2275b-3p	*ZmFAR1-5*	5	-1	1	22	4491	4512	UUCAGUUU CCUCUAAU AUCUCA	::.::. : ::::::: ::	CAUCAUG UUGUAGG AAACUAA A	Cleavage	reverse complement	1
miR2275b-3p	*ZmFAR1-15*	5	-1	1	22	3608	3629	UUCAGUUU CCUCUAAU AUCUCA	:.:. :.:: ::::::::	GUUGGUG AUGGAUG AAACUGA U	Translatio n	reverse complement	1
miR2275b-5p	*ZmFAR1-1*	5	-1	1	21	1591	1611	AGGAUUAG AGGCAACU GAACC	::::::::: :: :.: :.	AGUUCAG UUGCAUC UGAGCUC	Translatio n	reverse complement	1
miR2275b-5p	*ZmFAR1-2*	5	-1	1	21	2537	2557	AGGAUUAG AGGCAACU GAACC	::.. ::. :.::::.:	CCUUUGC AUGCUUU UAAUUUU	Cleavage	reverse complement	1
miR2275b-5p	*ZmFAR1-12*	5	-1	1	21	1480	1500	AGGAUUAG AGGCAACU GAACC	: : ::: ::.:: :::::.:	GCUGCAG CAGCUUC UGAUCUU	Cleavage		1
miR2275c-3p	*ZmFAR1-5*	5	-1	1	22	4491	4512	UUCAGUUU CCUCUAAU AUCUCA	::.::. : ::::::: ::	CAUCAUG UUGUAGG AAACUAA A	Cleavage	reverse complement	1
miR2275c-3p	*ZmFAR1-15*	5	-1	1	22	3608	3629	UUCAGUUU CCUCUAAU AUCUCA	:.:. :.:: ::::::::	GUUGGUG AUGGAUG AAACUGA U	Translatio n	reverse complement	1
miR2275d-5p	*ZmFAR1-4*	5	-1	1	21	632	652	AGAGUUGG AGGAAAGA AAACU	::: .:::.:. :. .:::	CCUUUCU UUUCUUU CGCUUCU	Cleavage	reverse complement	1
miR319a-3p	*ZmFAR1-16*	5	-1	1	20	1346	1365	UUGGACUG AAGGGUGC UCCC	::: ...:.::..: ::...:	AGGAAUG UCUUUUG GUCUGA	Cleavage		1
miR319a-5p	*ZmFAR1-15*	5	-1	1	20	481	500	GAGCUCUC UUCAGUCC ACUC	:: ::::.:: :::: .:: :	GAUUGGA UUGCAGA GGGCGC	Translatio n	reverse complement	1
miR319b-3p	*ZmFAR1-16*	5	-1	1	20	1346	1365	UUGGACUG AAGGGUGC UCCC	::: ...:.::..: ::...:	AGGAAUG UCUUUUG GUCUGA	Cleavage		1

miR319c-3p	*ZmFAR1-16*	5	-1	1	20	1346	1365	UUGGACUG AAGGGUGC UCCC	::: ...:.::..: ::...:	AGGAAUG UCUUUUG GUCUGA	Cleavage		1
miR319c-5p	*ZmFAR1-15*	5	-1	1	20	481	500	GAGCUCUC UUCAGUCC ACUC	:: ::::.:: :::: .:: :	GAUUGGA UUGCAGA GGGCGC	Translatio n	reverse complement	1
miR319d-3p	*ZmFAR1-16*	5	-1	1	20	1346	1365	UUGGACUG AAGGGUGC UCCC	::: ...:.::..: ::...:	AGGAAUG UCUUUUG GUCUGA	Cleavage		1
miR390a-5p	*ZmFAR1-4*	5	-1	1	21	1007	1027	AAGCUCAG GAGGGAUA GCGCC	:::: :..::: .: :::::	UGCGCAC UUUCUCU UUAGCUU	Cleavage	reverse complement	1
miR390b-5p	*ZmFAR1-4*	5	-1	1	21	1007	1027	AAGCUCAG GAGGGAUA GCGCC	:::: :..::: .: :::::	UGCGCAC UUUCUCU UUAGCUU	Cleavage	reverse complement	1
miR393a-3p	*ZmFAR1-7*	5	-1	1	22	1530	1551	AUCAGUGC AAUCCCUU UGGAAU	.: :::: : ::::.:::::	UGAUCUA AGGAAGU GCAUUGA U	Translatio n	reverse complement	1
miR393a-5p	*ZmFAR1-6*	5	-1	1	22	2614	2635	UCCAAAGG GAUCGCAU UGAUCU	: .:. ::. ::: .::::::::	ACGUUUU UGUCAUC UCUUUGG A	Cleavage		1
miR393b-5p	*ZmFAR1-6*	5	-1	1	22	2614	2635	UCCAAAGG GAUCGCAU UGAUCC	.:. ::. : ::.:::::::	ACGUUUU UGUCAUC UCUUUGG A	Cleavage		1
miR393c-5p	*ZmFAR1-6*	5	-1	1	22	2614	2635	UCCAAAGG GAUCGCAU UGAUCU	: .:. ::. ::: .::::::::	ACGUUUU UGUCAUC UCUUUGG A	Cleavage		1
miR395a-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395b-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395c-3p	*ZmFAR1-14*	5	-1	1	21	1959	1979	GUGAAGUG UUUGGAGG AACUC	::::: ::: .::.: :::.	GAGUUUC UCUGAAU ACUUUUA	Cleavage		1
miR395c-5p	*ZmFAR1-13*	5	-1	1	22	2842	2863	GUUCCCUG CAAACACU UCACCA	: :::::::: :: : :::	GUCUAAA GUGUUUG CUGAGAA G	Cleavage		1
miR395d-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395d-5p	*ZmFAR1-2*	5	-1	1	22	3818	3839	GUUCUAUG CAAGCACU UCACGA	:::::::: : .:: :::.	CCAAGAA GUGCUUC UAUCGAA U	Cleavage	reverse complement	1

miR395e-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395f-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395g-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395g-5p	*ZmFAR1-2*	5	-1	1	22	3818	3839	GUUCUAUG CAAGCACU UCACGA	:::::::: : .:: :::.	CCAAGAA GUGCUUC UAUCGAA U	Cleavage	reverse complement	1
miR395h-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395i-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395j-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395k-5p	*ZmFAR1-15*	5	-1	1	22	587	608	GUUUCCUU CAAGCACU UCACAU	: :..:::::: : :.:::..	CGGAGGG GUGCUGG AGGGAAG U	Translatio n	reverse complement	1
miR395l-3p	*ZmFAR1-14*	5	-1	1	21	1959	1979	GUGAAGUG UUUGGAGG AACUC	:::::.:::.::.: :::.	GAGUUUC UCUGAAU ACUUUUA	Cleavage		1
miR395m-3p	*ZmFAR1-14*	5	-1	1	21	1959	1979	GUGAAGUG UUUGGAGG AACUC	:::::.:::.::.: :::.	GAGUUUC UCUGAAU ACUUUUA	Cleavage		1
miR395n-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR395p-3p	*ZmFAR1-4*	5	-1	1	21	1922	1942	GUGAAGUG UUUGGGGG AACUC	::..:::. :::.:::::	CAACUCU UCCAGAC AUUUCAG	Cleavage	reverse complement	1
miR396f-3p	*ZmFAR1-6*	5	-1	1	21	814	834	GGUCAAGA AAGCUGUG GGAAG	:::: .:: : ::::::..	ACGCCCA GGGCCUU CUUGAUU	Translatio n		1
miR397a-5p	*ZmFAR1-11*	5	-1	1	21	2098	2118	UCAUUGAG CGCAGCGU UGAUG	::: .:: .:::.::::	GUACAAG AUUGUGC UUGAUGA	Cleavage		1
miR397b-5p	*ZmFAR1-11*	5	-1	1	21	2098	2118	UCAUUGAG CGCAGCGU UGAUG	::: .:: .:::.::::	GUACAAG AUUGUGC UUGAUGA	Cleavage		1
miR398a-3p	*ZmFAR1-1*	5	-1	1	21	2617	2637	UGUGUUCU CAGGUCGC CCCCG	:: :: :..::: :..::..	GAGGAGC CAUUUGA GGGCAUG	Cleavage	reverse complement	1

miR398b-3p	*ZmFAR1-1*	5	-1	1	21	2617	2637	UGUGUUCU CAGGUCGC CCCCG	:: :: :.:::: :..::..	GAGGAGC CAUUUGA GGGCAUG	Cleavage	reverse complement	1
miR398b-5p	*ZmFAR1-4*	5	-1	1	21	6091	6111	GGGGCGGA CUGGGAAC ACAUG	: : :::.::::: .: :::.	UCUCUUU UCUCAGU UCUCCCU	Cleavage	reverse complement	1
miR399a-5p	*ZmFAR1-13*	5	-1	1	21	325	345	GUGCGGUU CUCCUCUG GCACG	: : : :::::.::. :.:::	AGGGGCG GAGGGGA GCUGCAG	Cleavage		1
miR399d-5p	*ZmFAR1-10*	5	-1	1	21	8952	8972	GUGUGGCU CUCCUCUG GCAUG	::: ::: ::::::: :. .:.	CAUACCA AAGGAGA GCUCUAU	Cleavage		1
miR399d-5p	*ZmFAR1-13*	5	-1	1	21	325	345	GUGUGGCU CUCCUCUG GCAUG	: : :::::.: :::..::	AGGGGCG GAGGGGA GCUGCAG	Cleavage		1
miR399f-3p	*ZmFAR1-10*	5	-1	1	21	281	301	UGCCAAAG GAAAUUUG CCCCG	::: ::::::: : ::: :	GCGGGGA AAUUUCC AUUGCCU	Cleavage		1
miR399g-3p	*ZmFAR1-8*	5	-1	1	21	849	869	UGCCAAAG GGGAUUUG CCCGG	: : :::..: .:::::::.	GAUGACU AAUUUCU UUUGGCG	Cleavage	reverse complement	1
miR399g-5p	*ZmFAR1-15*	5	-1	1	21	2219	2239	GGGCAACC CCCCGUUG GCAGG	: ::: :: : :::::::::	AGAGACA AGGGUGG GUUGCCC	Translatio n	reverse complement	1
miR399h-5p	*ZmFAR1-10*	5	-1	1	21	8952	8972	GUGCAGUU CUCCUCUG GCACG	: : ::: :::::. :: .:.	CAUACCA AAGGAGA GCUCUAU	Cleavage		1
miR399i-5p	*ZmFAR1-10*	5	-1	1	21	8952	8972	GUGCGGCU CUCCUCUG GCAUG	::: ::: ::::::: :. .:.	CAUACCA AAGGAGA GCUCUAU	Cleavage		1
miR399j-5p	*ZmFAR1-16*	5	-1	1	21	881	901	AGGCAGCU CUCCUCUG GCAGG	: :.: :::::. :: :.::	UGUUCUA AAGGAGG GCAGUCU	Cleavage		1
miR408a	*ZmFAR1-10*	5	-1	1	21	3688	3708	CUGCACUG CCUCUUCC CUGGC	:: ::: ::::::::.:	GGAAGAC AAGUGGC AGUGCGG	Translatio n		1
miR408b-3p	*ZmFAR1-10*	5	-1	1	21	3688	3708	CUGCACUG CCUCUUCC CUGGC	:: ::: ::::::::.:	GGAAGAC AAGUGGC AGUGCGG	Translatio n		1
miR482-3p	*ZmFAR1-10*	5	-1	1	20	3622	3641	UCUUCCUU GUUCCUCC CAUU	: : :::::.::: :.::.	ACUAGGA GGAGCAA AGGAGG	Cleavage		2
miR482-3p	*ZmFAR1-8*	5	-1	1	20	172	191	UCUUCCUU GUUCCUCC CAUU	.::: . :::.: :::.::	GAUGCAG AGAACGA GGAGGA	Cleavage	reverse complement	1
miR482-5p	*ZmFAR1-6*	5	-1	1	19	2536	2554	UGGGAGAU GAAGGAGC CUU	.:::: .::..:.:: ::	GAGGCAU UUUUGUU UCCCU	Cleavage		1

miR482-5p	*ZmFAR1-7*	5	-1	1	19	1087	1105	UGGGAGAU GAAGGAGC CUU	:::: ::::::: :..:	GAGGACC CUUCAUU UUUCU	Cleavage	reverse complement	1
miR529-5p	*ZmFAR1-3*	5	-1	1	21	3647	3667	AGAAGAGA GAGAGUAC AGCCU	::: :.:.: :.:::::	GAGCUUC AUUUUCU UUCUUUC	Cleavage		1

Supplementary Table S4. The primer sequences used in qRT-PCR.

Primer name	Primer sequence
qACTIN-F	ATTGTCGGCAACTGGGATG
qACTIN-R	TCAGAGGAGCCTCGGTCAGC
qZmFAR1-1-F	CCAAGCAACTCCCACTAA
qZmFAR1-1-R	TACCCAGAACGGAACCAG
qZmFAR1-2-F	GATACCAACAAGCGAAAG
qZmFAR1-2-R	TGGTCTGGGATGAACTGG
qZmFAR1-3-F	GACAACCATACACAACCT
qZmFAR1-3-R	TCCGGACATGAGTGCCAA
qZmFAR1-4-F	GACGACTGGGTGGTCTAC
qZmFAR1-4-R	ATGCGTGCGCAGATGAG
qZmFAR1-5-F	ATCTACCTTGCCATCCACA
qZmFAR1-5-R	TTGTCAACCACGTCTCAAA
qZmFAR1-6-F	ATTTGAAGGAGCCTGACG
qZmFAR1-6-R	TGAGGAGGTAGGCGTAGT
qZmFAR1-7-F	GCTGCACAGCGTCCATAT
qZmFAR1-7-R	GGCAATGCGAACAGAGAA

qZmFAR1-8-F	AGCAGTCCTACTTCACCG
qZmFAR1-8-R	CCAGTCGGATAACCTTCC
qZmFAR1-9-F	AAGGTCAATCAGGTGTGG
qZmFAR1-9-R	AGAATAGACACATCGGCG
qZmFAR1-10-F	CTTCATCGACCACTAACT
qZmFAR1-10-R	ACCTTGCCATTGCAGGG
qZmFAR1-11-F	CGAACATGTAGGCTTCAG
qZmFAR1-11-R	CTAGGTGTGCCTGCTGAC
qZmFAR1-12-F	CTACTGGTATTAGGTTCG
qZmFAR1-12-R	GATTGGACTAGCACCTAC
qZmFAR1-13-F	CTGGACGGTGATGCGATG
qZmFAR1-13-R	CCTTAGGCATCGCACGTG
qZmFAR1-14-F	AAGAAGCCAGTTGAGCCTAGCA
qZmFAR1-14-R	CCCGGTCTGCACTAACAAT
qZmFAR1-15-F	CTACACGCATGAGGAGC
qZmFAR1-15-R	TCTGGGCGTCATCCTTG
qZmFAR1-16-F	TTAACAATGTCTACGGGTC
qZmFAR1-16-R	CCCATCCTTCATAGCACA