"Class I"

Atjazi : Mss-smecsefvgsrrftgkrpsfsotesrusoyik-engsfgdis-lgmackpdvngtlgnsrqptthysifpceasnmdsmvqdvkptnlffrqpsfssss :	100
Atjazz : Mssfsaecwdfsgrkpsfsotetrusrylk-ekgsfgdis-lgmtckpdvnggsrqp-tmmnifpceasgmdssagqedirpktmffrqssfssss :	93
PpJAZ1: MSSSSETLEVSGORGLEMAEKFSSFTOTOSMICOYLK-EKGSFGDIS-LIMACNMOQSNGTGTPEMFHQKAPPVNFFPFMENSRNLPATPGDFRSMDLFFQQAGFGSSV:	107
Vrjazi : Mssssdiadsgrftggrapargpekssfsotesllsgvik-ekskegdis-lgmtcslegngtpeslrgtatttmnifpmtersagvsgiparnmniksmnlfeggagfgssv :	112
Najaza : Masseivdsgkfsagggqkshfsotonllsqylkekkgsfgdls-lgihragtttmdlfpmieksges	79
Ntjaz3 : Masseivdsgrfaaaaaggqksnfsotonllsoylkekkgsegdis-lgihragttimdilpmiekfgesnfoksmilfpot:	81
SIJAZI: MASSEIVDSGRFAGQKSHFSHTCHDLSQYLKEKKGSLGDIS-LDMHRNFDSAGSTUMDILEMIEKSGEVQKSMNLFEQGG:	80
S1JAZ7: MASSEIVDSGRFAGQKSHFSHTONDLSQYLKEKKGSLGDIS-LDMHRNFDSAGSTUMDLLFMIEKSGEIVQKSMNLFFQGG:	80
Najazd : Mglseivdsgkvtgqksqfsotenblsoflk-kkgsfgdinnlgiyr-sfeptgnqttttmnnllfmieksgdsaekksqkfmnlffqev :	88
Ntjazi : Mcsseivdsgkvsgqksqfsotonissofik-kkgsfcdinnlgiyr-sfeptgnqttttmnilemieksgdsaeknsqkpmnlffqev:	88
S1JAZ2: MGSSENMDSGKVTGQKSQFSOTONLLSQFLK-KKGSVGDLNNLGIYKTTFESTGSQQTATTTTTMNLLPMIEKSSDSSSSSSSVETNPQKFMNLFFQEFDF:	101
PpJAZ5 : MAERVNEAGT NELSONEK-ERRSLQVPTUMDILTNMETGPAAETPSSKPSIDLFEGFAKN :	60
Vrjazz : Msnspefsdfagrks-gklpdrsnfsotonllsgflk-bkgregddslgmagksetkgrpesfksstmsfdllnkdksseasgqngggssnlkssdfmegfagfgsla :	106
Najazh : Msnsonsfoggragkapersnfvotonlisofik-grafirdinigiagkseisgksdvteaammdiltimenpsietkegegksidpvrgsavtessr :	99
S1JAZ3: MSNLCDARRRNGNGKAPERSSEVOT NELSOFIK-GKATIRDINLGIAGQPEAAGKTETATMDILTVMEKPSIDLTKEEHKSVDLVTTESSR:	91
S1JAZ4: MSNROLCSLDSEKSHIMNE NOLTOFFN-GRANINDINLTISNNGEAKASAUKDILTNMEELS-TKTTEODOKLIEHVE:	77
Atjaz5 : Msssnenakaqapeksdeteresideteresidesekseksidelglyrkpdsslalpgkedppgkqnamhkaghskgepstssggkvk:	84
Atjaz6: MstgQapeksnfscresulsreskesfgninmglarksdlelagkfdlkgqqnvikkvetsetrpfkliqkfsigeaststedkaiyi:	90

Atjazi : SSLPKEDVLKMTQTTRSVKPESQTAPHTIFYAGOVIVFNDESAEKAKEVINIASKGTANSLAKNQTDIRSNIATIANQVPHPRKTTTQEP	: 190)
Atjazz: ssgtkedvomikettksvkpesosafltifyggrvmvfddfsaekakrvidlankgsaksftcftaevnnnhsaysokeiasspnpvcspaktaagep	: 191	
PpJAZ1: PRG-DVPKMADSSVKKSVPGEPGKAGMTIFYGGOVIVFDDFPADKAKEVMLLASKESSHSQAAQASIPAKSNNVFASHLGKNPMNSSSSVPPSANMFPKFGNQVIQEA	: 214	ł
VIJAZ1: SKD-DAPKIVNSSVKKSGNVEPQTACMTIFYGGOVIVFNDFPADKAKEVNRILEGMGSSPVPSTTVKNPIDAGGMAPSTPNVVPNFANSLIQER	: 204	1
Najaza :EAKSESEKAOMTIFYGGOVIVFNDFPADKAKRIMIMASCAKGNNNSNNSTTQIQKTAESAL		
Ntjaz3:EAKSEPEKAGMTIFYGGQVIVFNDFPADKAKRIMIMASCTQGNNNCNNCATQIQKTAESAS	: 139	è
S1JAZ1:MKAESEPEKACMTIFYGCOVIVFNDFPADKAKPIMIMASTSKGNNPAKPLESAADLVVPSFGKTSIQEN	: 149	è
S1JAZ7:MKAESEPEKAOMTIFYGGOVIVFNDFPADKAKPINIMASTSKGNNPAKPLESAADLVVPSFGKTSIQEN	: 149	à.
Najazd :ISTIKSEPEKAOMTIFYGCOVIVFDDFFFAKANDIMKHASKKNNNNNKQNLATNIFSYFMVNNQNSAESV-TINLTQELRSRI		
Ntjazi :Istaksepekacatifyggcvivfddfpatkansinkansinkkinnkqnlasnifsypmvnnqnsaesvtinfsqelrtrt		
S1JAZ2:SKEQSTKKTESWKPDQPEKAOMTIFYGGCVIVFDDPPADKANEINKONPTNNFTYPMIKNQKTADQSGVSFGNKLIQELP-	: 185	>
PpJAZ5:PEAVFSNQPGSFONTIFYGGCVLVFNULODEKAREINNFATKGSSKISSGFVSN-GIDKFGSASVTKMVASEPNIAANSQDI-	: 141	
Vrjaz2 : sideainmadfrksattesets <mark>omtify</mark> a <mark>govlvfndfpaekarevx</mark> ltaakgtpontsgflstsgpekintgsstapspsipaspattpnp	: 198	3
Najazh : DMEVAVNEPSTSKEAPKEPKARQLTMEYLEKVIVFDDFPALKARAVNILASKGCPQSSFGTFHTTTIDKINTSATAAATASLTCNKTNQLKPST	: 193	1
S1JAZ3: EKEAAVNEPSTSKEAPKEPKAAGLTMFYICKVIVFDDFPADKAKAVNIHASKGCPQSSFGTFQAINIDKINTCSPAPASLTSNRTDSVAP	: 181	3
S1JAZ4:KSAINKASGSKEIPHKECKIACLSIFYGCKVVVFDDFFMEKARAVMILASKGISNNSCAIFQTFTTTQTNGSNGSN	: 150)
Atjaz5:NIQTPINDENNNNKSSMVLPDLNEPTDNNHL-	: 165	5
Atjaz6:SKNS-QSHMNLDKSNVVIPDLNEPTSSG	: 169	4

AtJAZ1 :	IQSSPTPLT-ELPIARRASLHRFTEKRKURVTSKAPYOTCDPAKASSN : 237
AtJAZ2 :	IOPNPASLACPIPIARRASI HRFLEKRKURITSKAPYOIDGSAEASSK : 239
PpJAZ1 :	PKPSPOPIVCI PIARK SIHRELEKRKORINNKAPYOTSSPAAGPAK : 262
VrJAZ1 :	IORPAOPVACP PLARKESLERELPKRKORITARAPYN SNSPAGPHK : 252
Najaza :	DLVPOPIISGD PIARR SITRELEKRKOR IAKAPYOISNTNKO-AA: 184
NtJAZ3 :	DLVPOPIISGD PLARRASI TRELEKRKORI TAKAPYOT SNTNKO-AA : 186
SlJAZ1 :	OMPNOPIVS-ILPIARE SITE PERKEDBLTAKUPHREEAAAP-KK : 195
S1JAZ7 :	CMPNOPIVS-I FIARRASITRE EKKERLTARVPYHREEAAAP-KK : 195
NaJAZd :	
NtJAZ1:	HVPISQSSVADLBIARRNSLTRF DEKRKORITSTAPYOTCNKKIADSK : 216
SlJAZ2 :	KLSMPQPSVADLPIARRNSLTRFLFKRKDRVTSIAPYQISNNKKSK : 231
PpJAZ5 :	KVHSAVIGSI PIARRASIHKE AKRKERVAAIAPYOVN-HORASPS : 188
VrJAZ2 :Q	ALSSGTFSIPASPAATPNPQAPLGSE LPIARRNSIHRFLEKRKURVNSKAPYOVNNPSRPSPK : 262
	SSASOKOQEQHQQTQSQTPGTSSS-ELPIARESSLHRFLEKRKDRATARAPYOVVHNNP-LPS : 310
	SSAPLVEQEQHKQIQSQAAEISSSSELPIARESSLHRFLEKRKDRATVRAPYQVVRNNPLLPS : 286
	PFL LPIARRSSLYRFLEKRKURD TARAPYOMHNP-LOS: 187
AtJAZ5 :	TKEQQQQQEQNQIVERTARRASTHREFAKRKOBAVARAPYOVNQNAGHHRY : 216
AtJAZ6 :	nnedqetgqqhqvverharrasihrefakrkoravarapyovnqhgshL : 218
AtJAZ1 : PQTTGNMSWLGLAAEI	
AtJAZ2 : PTNPAWLSSR	
PpJAZ1 : PAEGKSWLGLAAQPTQ	
VrJAZ1 : PAESKSWLGLAAKSPKKKKK	
NaJAZa : VSENKAWLGLGAQFF-VKAEQF	
NtJAZ3 : VSENKVWLGLGAQFP-VKAEQF	
Sljazi : EEHKAPWLGLGGQFA-VKTEQY	: 216
Sljaz7 : EEHKAPWLGLGGQFA-VKTEQY	
NaJAZd : NEENKAWLGLGGKFVPVKTEQFF	: 241
NtJAZ1 : NEENKAWLGLGAKFVPVKTEQFF	
al made the programme of an army transcent	0.50

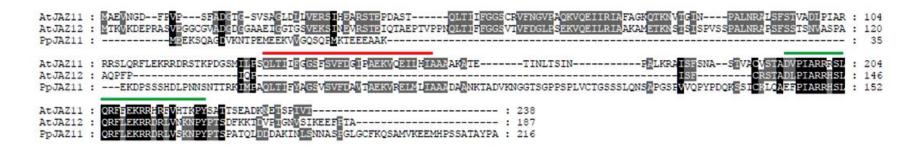
"Class II"

Atjazi : Merdelgi gsknspitvkeetsessrdsapnrgmnysfsnkysassgelserpt edrhrksgnyhlphsgsfmpssvadvyd straapyssv gyrmfpnsnqheetn-avsm : Atjazi : Merdelgi gsklspitvkeetnedsapsrgmmdwsfsskygsgegelsegts opetryntyndhllssaam ong etyfssl edryfpgssoddtitysm : Ppjazi : Merdelgi gsklspitvkeetnedsapsrgmmdwsfsskygsgedelsegts opetryntyndhllssaam ong etyfssl edryfpgssoddtitysm : Ppjazi : Merdengi sskeplavvkee i ieggkdsaftkgsg-i on pfsnki sale	: 103 : 117 : 105 : 76 : 76 : 98 : 104 : 88
AtJAZ3 : SMPGFQSHHYAPGGRSFMNNNNN	: 205 : 174 : 228 : 222 : 178 : 144 : 183 : 209 : 161 : 227
AtJAZ3 : GNGSSMPQVFSPPQTHQQVVHHTRASVISSAMP	: 309 : 266 : 339 : 332 : 285 : 260 : 297 : 320 : 272 : 341
Atjaza : Arflekrkervisvspyclokesitogramsecissilsat : 352 Atjaza : Arflekrkervinvspyyvonkssilogilmsecvscppahhlh : 310 Ppjaza : Arflekrkervisapynf-skkspDsngvnftQqeqq : 377 Vrjaza : Arflekrkervisapyni-skkspedatpgsngmsytasSgagasagaaalsanke : 388 Najazc : Arflekrkervinapygl-skrsgeostpesngvgfsatssvgtspliagket : 338 Sljaz6 : Arflekrkervinapygl-skrspeostpesngvgfsats	

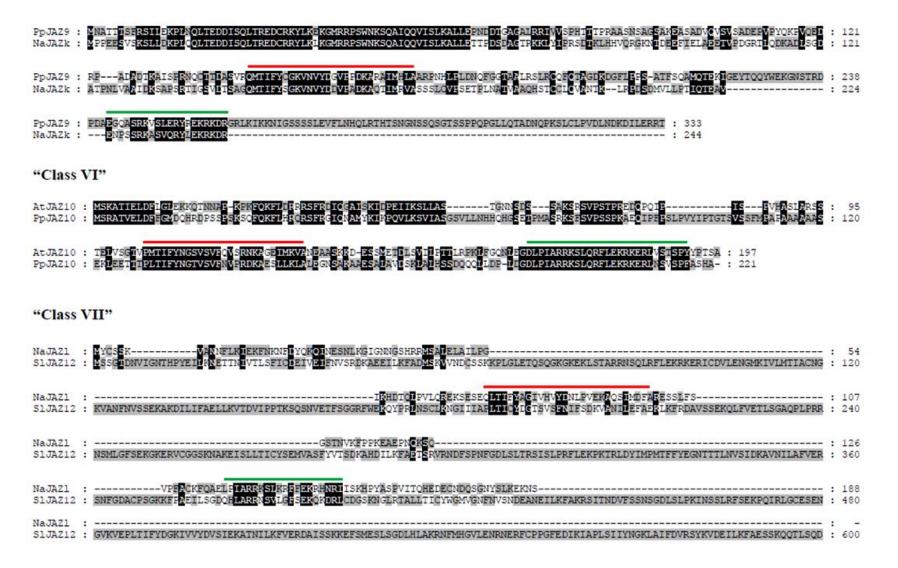
"Class III"

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Atjaz7 : MIIIKNCDKPLLNFKEMEYOTKODLETR-LLTSSY------DSDFH--SSLDESSSSEISOPKESGILTIFYNGHMCVSSILTHLEANATISDASRDVEEKSLSLRSSDGSDPPTI : 109
Atjaz8 : ------MKIQONCDLETR-LFPTSY------DSDSSDTTSVVESTSSGNPQPNESGRITIFYNGKMCFSSDVTHLOARSIISTASRDVKTKS----SSNGSDP--- : 87
                      NaJAZf
NaJAZj
                                                                                                                            90
S1JAZ9
                                                                          FLTIFYNCKIVVS-HVTDLOAKAIIYLASRETEDKTNKSLSP-ISEPSS- : 96
                          - PRINGNIOFR-IMPPSLSTFSPNICSNNNTSSYFSME-EDKESTELECKS
                          LxLx L
AtJAZ7 : -- PNNSTRFHY-----QKASMKRSLHSFLOKES-LRICATSPYFRYR : 148
AtJAZ8 : --PNKSTSFHHNQLPNPKASMKKSLOSFLOKRE-IRICATSPYFSRR : 131
NaJAZm : ------GISLRKSLORFLOKREERICAANPY---- : 95
NaJAZf : -----PILQT----QTGI SMKKSLORFLOKR: -NRIGETSPY H-- : 123
                                  FLOKER-NRIONTSPYHR--: 131
NaJAZi : ISEPSSPLLOSP---ASDISMKRSLOF
                                  GFLOKRK-MRVOATSPYHK-- : 112
SFLOKRK-NRIOITSPYHH-- : 103
SIJAZ9 : -----PLLQP------QTVXKSI
SlJAZ10 : -----PLLOP------COVESTO
SlJAZ11 : -----PLLQP------CTVKKSLOFFLOKRK-SRTOTTSPYHH-- : 127
PpJAZ7 : --TVMSPLCSP----VAGMSMKRSLORFLOKR:-HRVQATSPYHH-- : 124
PpJAZ8 : -----QIYGP-----PGVSMKRSLQSFLOKR:-KRSQEASPYNSLQ : 112
```

"Class IV"



"Class V"



Text S1: Multiple sequence alignments identified seven distinct classes of peach JAZ proteins. Deduced amino acid sequences of JAZ proteins from peach and other plant species were aligned using Clustal X and edited using GeneDoc. The two characteristic motifs, ZIM and Jas, were identified for all JAZ proteins and pointed by red and green solid lines, respectively. A weakly conserved N-terminal (NT) motif was identified in Class I -JAZs and indicated by a blue solid line. A highly conserved motif was identified in Class II -JAZs and indicated by stars. An EAR-like element was identified at the N-terminus of Class III -JAZs and was indicated by red letters.