

Supplementary Material

Characterization of differentially expressed genes under salt stress in olive

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Table S1: The regulatory elements predicted by Nsite program in polymorphic UTRs of upstream/downstream parts of each gene in each cultivar.

***OeNHX6* cv. Farga 5'**

Motifs on "-" Strand: Mean Exp. Number	0.00737	Up.Conf.Int.	1	Found	1
27 CATGCAC	21 (Mism.= 0)				
Motifs on "-" Strand: Mean Exp. Number	0.00591	Up.Conf.Int.	1	Found	1
174 AACAACTCT	167 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00786	Up.Conf.Int.	1	Found	1
155 CAAACaTACA	164 (Mism.= 1)				
Motifs on "-" Strand: Mean Exp. Number	0.00069	Up.Conf.Int.	1	Found	1
101 GTTTTGGA	93 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00230	Up.Conf.Int.	1	Found	1
177 TtGAAtTTTCAG	188 (Mism.= 2)				

A total of 5 different REs were found

***OeNHX6* var. *sylvestris* 5'**

Motifs on "-" Strand: Mean Exp. Number	0.00539	Up.Conf.Int.	1	Found	1
173 AACAACTCT	166 (Mism.= 0)				
Motifs on "-" Strand: Mean Exp. Number	0.00997	Up.Conf.Int.	1	Found	1
127 TCAACAAACaaA	116 (Mism.= 2)				
Motifs on "-" Strand: Mean Exp. Number	0.00882	Up.Conf.Int.	1	Found	2
177 AACAAAC	171 (Mism.= 0)				
125 AACAAAC	119 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00374	Up.Conf.Int.	1	Found	1
189 CCCGGGGg	196 (Mism.= 1)				
Motifs on "-" Strand: Mean Exp. Number	0.00366	Up.Conf.Int.	1	Found	1
31 TTCTaCAtGcCTTTTC	16 (Mism.= 3)				
Motifs on "+" Strand: Mean Exp. Number	0.00222	Up.Conf.Int.	1	Found	1
176 TtGAAtTTTCAG	187 (Mism.= 2)				

A total of 6 different REs were found

***OeNHX6* cv. Farga 3'**

Motifs on "-" Strand: Mean Exp. Number	0.00881	Up.Conf.Int.	1	Found	1
235 CCACTTG	229 (Mism.= 0)				

Motifs on "+" Strand: Mean Exp. Number 0.00683 Up.Conf.Int. 1 Found 1
130 AGAAACAA 137 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00213 Up.Conf.Int. 1 Found 1
202 ACTTcACACAC 192 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00881 Up.Conf.Int. 1 Found 1
235 CCACTTG 229 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00901 Up.Conf.Int. 1 Found 1
141 GTCAAAAT 148 (Mism.= 0)

A total of 5 different REs were found

OeNHX6 var. sylvestris 3'

Motifs on "-" Strand: Mean Exp. Number 0.00671 Up.Conf.Int. 1 Found 1
261 TGACGTAA 254 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00385 Up.Conf.Int. 1 Found 1
227 ATcGaGTgGCTGTAC 241 (Mism.= 3)

Motifs on "-" Strand: Mean Exp. Number 0.00247 Up.Conf.Int. 1 Found 1
202 ACTTcACACAC 192 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00760 Up.Conf.Int. 1 Found 1
141 GTCAAAAT 148 (Mism.= 0)

A total of 4 different REs were found

OePI4KG cv. Farga 5'

Motifs on "-" Strand: Mean Exp. Number 0.00704 Up.Conf.Int. 1 Found 1
209 TCtACGTCTC 200 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00771 Up.Conf.Int. 1 Found 1
200 GAgACGTAGA 209 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00932 Up.Conf.Int. 1 Found 1
380 AgaATTGATTGAG 392 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00999 Up.Conf.Int. 1 Found 1
15 TCAACGTGTC 24 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00186 Up.Conf.Int. 1 Found 1
68 CTCCAACcAAaCC 80 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00756 Up.Conf.Int. 1 Found 1

566 AAACCCTAA 558 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00756 Up.Conf.Int. 1 Found 1
558 TTAGGGTTT 566 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00084 Up.Conf.Int. 1 Found 1
71 CAACCAAACCAgT 84 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00578 Up.Conf.Int. 1 Found 5
110 AGAGAGAGA 102 (Mism.= 0)
108 AGAGAGAGA 100 (Mism.= 0)
106 AGAGAGAGA 98 (Mism.= 0)
104 AGAGAGAGA 96 (Mism.= 0)
102 AGAGAGAGA 94 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00817 Up.Conf.Int. 1 Found 1
65 ctTCTCCAACCA 76 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00533 Up.Conf.Int. 1 Found 1
109 CtAACGTACA 118 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00160 Up.Conf.Int. 1 Found 1
414 GAGGGTATTTTgGTcA 429 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00246 Up.Conf.Int. 1 Found 4
113 GttAGAGAGAGAGAGAg 97 (Mism.= 3)
111 tAGAGAGAGAGAGAGAg 95 (Mism.= 2)
109 GAGAGAGAGAGAGAGAA 93 (Mism.= 0)
107 GAGAGAGAGAGAGAAaAA 91 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00863 Up.Conf.Int. 1 Found 1
393 TCTCAATC 386 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00556 Up.Conf.Int. 1 Found 1
586 TTTTCCAC 579 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00622 Up.Conf.Int. 1 Found 1
501 GCCATGTGAt 492 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00773 Up.Conf.Int. 1 Found 1
517 tTACTCTACaC 507 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00951 Up.Conf.Int. 1 Found 1
213 TtACTCTACGt 203 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00209 Up.Conf.Int. 1 Found 1
129 TTTCTTGTCT 119 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00247 Up.Conf.Int. 1 Found 1
201 TCGTGTGC 194 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00601 Up.Conf.Int. 1 Found 7

87	CTCatTtTCTCTCTCT	102 (Mism.= 3)
89	CatTtTCTCTCTCTCT	104 (Mism.= 3)
91	tTtTCTCTCTCTCTCT	106 (Mism.= 2)
93	tTCTCTCTCTCTCTCT	108 (Mism.= 1)
95	CTCTCTCTCTCTCTCT	110 (Mism.= 0)
97	CTCTCTCTCTCTCTaa	112 (Mism.= 2)
99	CTCTCTCTCTCTaaCg	114 (Mism.= 3)

Motifs on "+" Strand: Mean Exp. Number 0.00366 Up.Conf.Int. 1 Found 1

14	TTCAACGTGtCt	25 (Mism.= 2)
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A total of 22 different REs were found

***OePI4KG* cv. Leccino 5'**

Motifs on "-" Strand: Mean Exp. Number 0.00684 Up.Conf.Int. 1 Found 1

211	TCtACGTCTC	202 (Mism.= 1)
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Motifs on "+" Strand: Mean Exp. Number 0.00750 Up.Conf.Int. 1 Found 1

202	GAgACGTAGA	211 (Mism.= 1)
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Motifs on "+" Strand: Mean Exp. Number 0.00906 Up.Conf.Int. 1 Found 1

382	AgaATTGATTGAG	394 (Mism.= 2)
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Motifs on "+" Strand: Mean Exp. Number 0.00051 Up.Conf.Int. 1 Found 1

15	TCAACGTGTC	24 (Mism.= 0)
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Motifs on "+" Strand: Mean Exp. Number 0.00185 Up.Conf.Int. 1 Found 1

68	CTCCAACcAAaCC	80 (Mism.= 2)
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Motifs on "-" Strand: Mean Exp. Number 0.00765 Up.Conf.Int. 1 Found 1

568	AAACCCTAA	560 (Mism.= 0)
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Motifs on "+" Strand: Mean Exp. Number 0.00765 Up.Conf.Int. 1 Found 1

560	TTAGGGTTT	568 (Mism.= 0)
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Motifs on "+" Strand: Mean Exp. Number 0.00083 Up.Conf.Int. 1 Found 1

71	CAACCAAACCAagT	84 (Mism.= 2)
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Motifs on "-" Strand: Mean Exp. Number 0.00609 Up.Conf.Int. 1 Found 6

112	AGAGAGAGA	104 (Mism.= 0)
110	AGAGAGAGA	102 (Mism.= 0)
108	AGAGAGAGA	100 (Mism.= 0)
106	AGAGAGAGA	98 (Mism.= 0)
104	AGAGAGAGA	96 (Mism.= 0)
102	AGAGAGAGA	94 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00813 Up.Conf.Int. 1 Found 1

65	ctTCTCCAACCA	76 (Mism.= 2)
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Motifs on "+" Strand: Mean Exp. Number 0.00519 Up.Conf.Int. 1 Found 1
 111 CtAACGTACA 120 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00158 Up.Conf.Int. 1 Found 1
 416 GAGGGTATTTTgGTcA 431 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00265 Up.Conf.Int. 1 Found 5
 115 GttAGAGAGAGAGAGAg 99 (Mism.= 3)
 113 tAGAGAGAGAGAGAGAg 97 (Mism.= 2)
 111 GAGAGAGAGAGAGAGAg 95 (Mism.= 1)
 109 GAGAGAGAGAGAGAGAA 93 (Mism.= 0)
 107 GAGAGAGAGAGAGAAaAA 91 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00841 Up.Conf.Int. 1 Found 1
 395 TCTCAATC 388 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00532 Up.Conf.Int. 1 Found 1
 588 TTTTCCAC 581 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00622 Up.Conf.Int. 1 Found 1
 503 GCCATGTGAt 494 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00752 Up.Conf.Int. 1 Found 1
 519 tTACTCTACaC 509 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00936 Up.Conf.Int. 1 Found 1
 215 TtACTCTACGt 205 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00196 Up.Conf.Int. 1 Found 1
 131 TTTCTTGTTCT 121 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00242 Up.Conf.Int. 1 Found 1
 203 TCGTGTGC 196 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00644 Up.Conf.Int. 1 Found 8
 87 CTCatTtTCTCTCTCT 102 (Mism.= 3)
 89 CatTtTCTCTCTCTCT 104 (Mism.= 3)
 91 tTtTCTCTCTCTCTCT 106 (Mism.= 2)
 93 tTCTCTCTCTCTCTCT 108 (Mism.= 1)
 95 CTCTCTCTCTCTCTCT 110 (Mism.= 0)
 97 CTCTCTCTCTCTCTCT 112 (Mism.= 0)
 99 CTCTCTCTCTCTCTaa 114 (Mism.= 2)
 101 CTCTCTCTCTCTaaCg 116 (Mism.= 3)

Motifs on "+" Strand: Mean Exp. Number 0.00364 Up.Conf.Int. 1 Found 1
 14 TTCAACGTGtCt 25 (Mism.= 2)

A total of 22 different REs were found

***OePIK4g* cv. Picual 5'**

Motifs on "-" Strand: Mean Exp. Number	0.00705	Up.Conf.Int.	1	Found	1
211 TctACGTCTC	202 (Mism.= 1)				
Motifs on "+" Strand: Mean Exp. Number	0.00762	Up.Conf.Int.	1	Found	1
202 GAgACGTAGA	211 (Mism.= 1)				
Motifs on "+" Strand: Mean Exp. Number	0.00915	Up.Conf.Int.	1	Found	1
382 AgaATTGATTGAG	394 (Mism.= 2)				
Motifs on "+" Strand: Mean Exp. Number	0.00051	Up.Conf.Int.	1	Found	1
15 TCAACGTGTC	24 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00184	Up.Conf.Int.	1	Found	1
68 CTCCAACcAAaCC	80 (Mism.= 2)				
Motifs on "-" Strand: Mean Exp. Number	0.00766	Up.Conf.Int.	1	Found	1
568 AAACCCTAA	560 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00766	Up.Conf.Int.	1	Found	1
560 TTAGGGTTT	568 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00082	Up.Conf.Int.	1	Found	1
71 CAACCAAACCAagT	84 (Mism.= 2)				
Motifs on "-" Strand: Mean Exp. Number	0.00595	Up.Conf.Int.	1	Found	6
112 AGAGAGAGA	104 (Mism.= 0)				
110 AGAGAGAGA	102 (Mism.= 0)				
108 AGAGAGAGA	100 (Mism.= 0)				
106 AGAGAGAGA	98 (Mism.= 0)				
104 AGAGAGAGA	96 (Mism.= 0)				
102 AGAGAGAGA	94 (Mism.= 0)				
Motifs on "+" Strand: Mean Exp. Number	0.00824	Up.Conf.Int.	1	Found	1
111 CtAACGTACA	120 (Mism.= 1)				
Motifs on "+" Strand: Mean Exp. Number	0.00807	Up.Conf.Int.	1	Found	1
65 ctTCTCCAACCA	76 (Mism.= 2)				
Motifs on "+" Strand: Mean Exp. Number	0.00521	Up.Conf.Int.	1	Found	1
111 CtAACGTACA	120 (Mism.= 1)				
Motifs on "+" Strand: Mean Exp. Number	0.00160	Up.Conf.Int.	1	Found	1
416 GAGGGTATTTTgGTcA	431 (Mism.= 2)				
Motifs on "-" Strand: Mean Exp. Number	0.00257	Up.Conf.Int.	1	Found	5
115 GttAGAGAGAGAGAGAg	99 (Mism.= 3)				
113 tAGAGAGAGAGAGAGAg	97 (Mism.= 2)				
111 GAGAGAGAGAGAGAGAg	95 (Mism.= 1)				
109 GAGAGAGAGAGAGAGAA	93 (Mism.= 0)				

107	GAGAGAGAGAGAGAA	91 (Mism.= 1)			
Motifs on "-" Strand: Mean Exp. Number 0.00853 Up.Conf.Int. 1 Found 1					
395	TCTCAATC	388 (Mism.= 0)			
Motifs on "-" Strand: Mean Exp. Number 0.00543 Up.Conf.Int. 1 Found 1					
588	TTTTCCAC	581 (Mism.= 0)			
Motifs on "-" Strand: Mean Exp. Number 0.00629 Up.Conf.Int. 1 Found 1					
503	GCCATGTGAt	494 (Mism.= 1)			
Motifs on "-" Strand: Mean Exp. Number 0.00769 Up.Conf.Int. 1 Found 1					
519	tTACTCTACaC	509 (Mism.= 2)			
Motifs on "-" Strand: Mean Exp. Number 0.00951 Up.Conf.Int. 1 Found 1					
215	TtACTCTACGt	205 (Mism.= 2)			
Motifs on "-" Strand: Mean Exp. Number 0.00198 Up.Conf.Int. 1 Found 1					
131	TTTCTTGTCT	121 (Mism.= 1)			
Motifs on "-" Strand: Mean Exp. Number 0.00246 Up.Conf.Int. 1 Found 1					
203	TCGTGTGC	196 (Mism.= 0)			
Motifs on "+" Strand: Mean Exp. Number 0.00626 Up.Conf.Int. 1 Found 8					
87	CTCatTtTCTCTCTCT	102 (Mism.= 3)			
89	CatTtTCTCTCTCTCT	104 (Mism.= 3)			
91	tTtTCTCTCTCTCTCT	106 (Mism.= 2)			
93	tTCTCTCTCTCTCTCT	108 (Mism.= 1)			
95	CTCTCTCTCTCTCTCT	110 (Mism.= 0)			
97	CTCTCTCTCTCTCTCT	112 (Mism.= 0)			
99	CTCTCTCTCTCTCTaa	114 (Mism.= 2)			
101	CTCTCTCTCTCTCTaaCg	116 (Mism.= 3)			
Motifs on "+" Strand: Mean Exp. Number 0.00369 Up.Conf.Int. 1 Found 1					
14	TTCAACGTGtCt	25 (Mism.= 2)			

A total of 23 different REs were found

OePI4KG cv. Farga 3'

Motifs on "+" Strand: Mean Exp. Number 0.00381 Up.Conf.Int. 1 Found 1					
295	TAGTGCTGT	303 (Mism.= 0)			
Motifs on "-" Strand: Mean Exp. Number 0.00617 Up.Conf.Int. 1 Found 1					
821	TCCGTGTAAaCA	811 (Mism.= 1)			
Motifs on "-" Strand: Mean Exp. Number 0.00229 Up.Conf.Int. 1 Found 1					
1102	CCATTGTTTCGG	1091 (Mism.= 1)			
Motifs on "+" Strand: Mean Exp. Number 0.00051 Up.Conf.Int. 1 Found 1					

765 TgCACGTGcCACC 777 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00584 Up.Conf.Int. 1 Found 1
766 GCACGTGC 773 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00584 Up.Conf.Int. 1 Found 1
773 GCACGTGC 766 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00189 Up.Conf.Int. 1 Found 1
640 TtGAAGTTTCAG 629 (Mism.= 1)

A total of 7 different REs were found

***OePIK4g* cv. Leccino 3'**

Motifs on "+" Strand: Mean Exp. Number 0.00366 Up.Conf.Int. 1 Found 1
295 TAGTGCTGT 303 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00600 Up.Conf.Int. 1 Found 1
805 TCCGTGTAAcA 795 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00229 Up.Conf.Int. 1 Found 1
1086 CCATTGTTTCGG 1075 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00191 Up.Conf.Int. 1 Found 1
640 TtGAAGTTTCAG 629 (Mism.= 1)

A total of 4 different REs were found

***OePIK4g* cv. Picual 3'**

Motifs on "+" Strand: Mean Exp. Number 0.00372 Up.Conf.Int. 1 Found 1
295 TAGTGCTGT 303 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00614 Up.Conf.Int. 1 Found 1
821 TCCGTGTAAcA 811 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00234 Up.Conf.Int. 1 Found 1
1102 CCATTGTTTCGG 1091 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00052 Up.Conf.Int. 1 Found 1
765 TgCACGTGcCACC 777 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00583 Up.Conf.Int. 1 Found 1
766 GCACGTGC 773 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00583 Up.Conf.Int. 1 Found 1
773 GCACGTGC 766 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00191 Up.Conf.Int. 1 Found 1
640 TtGAAGTTTCAG 629 (Mism.= 1)

A total of 7 different REs were found

***OeBBX19* cv. Farga 5'**

Motifs on "+" Strand: Mean Exp. Number 0.00526 Up.Conf.Int. 1 Found 1
83 CTTTTGatTACCTTA 97 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00295 Up.Conf.Int. 1 Found 1
35 gCATAAT 41 --23-- 65 ATTATAT 71 (Mism.= 1/ 0)

Motifs on "-" Strand: Mean Exp. Number 0.00680 Up.Conf.Int. 1 Found 1
115 GGTAATTA 108 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00787 Up.Conf.Int. 1 Found 1
60 AgAACCATCCAc 49 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00242 Up.Conf.Int. 1 Found 1
146 TAATTGGAAaAAA 157 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00602 Up.Conf.Int. 1 Found 1
165 ATTACGTaTT 156 (Mism.= 1)

A total of 6 different REs were found

***OeBBX19* cv. Leccino 5'**

Motifs on "+" Strand: Mean Exp. Number 0.00557 Up.Conf.Int. 1 Found 1
83 CTTTTGatTACCTTA 97 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00306 Up.Conf.Int. 1 Found 1
35 ACtTAAT 41 --23-- 65 ATTATAT 71 (Mism.= 1/ 0)

Motifs on "-" Strand: Mean Exp. Number 0.00738 Up.Conf.Int. 1 Found 1
113 GGTAATTA 106 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00474 Up.Conf.Int. 1 Found 1
164 AATGACGTaTTT 152 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00643 Up.Conf.Int. 1 Found 1
26 CAAACGgACA 35 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00692 Up.Conf.Int. 1 Found 1
60 AgAACCATCCAc 49 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00223 Up.Conf.Int. 1 Found 1
144 TAATTGGAAaAAA 155 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00041 Up.Conf.Int. 1 Found 1
166 TTaATGACGTAtTT 153 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00236 Up.Conf.Int. 1 Found 1
164 aATGACGTATTt 153 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00780 Up.Conf.Int. 1 Found 1
155 aTACGTCATTaA 166 (Mism.= 2)

A total of 10 different REs were found

***OeBBX19* cv. Farga 3'**

Motifs on "-" Strand: Mean Exp. Number 0.00870 Up.Conf.Int. 1 Found 1
142 aACAGTGTTAa 132 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00307 Up.Conf.Int. 1 Found 1
99 cAcCTGACCTTT 110 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00342 Up.Conf.Int. 1 Found 1
94 CGATTTAAGG 85 (Mism.= 1)

A total of 3 different REs were found

***OeBBX19* cv. Leccino 3'**

Motifs on "-" Strand: Mean Exp. Number 0.00896 Up.Conf.Int. 1 Found 1
142 aACAGTGTTAa 132 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00308 Up.Conf.Int. 1 Found 1
99 cAcCTGACCTTT 110 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00949 Up.Conf.Int. 1 Found 1
97 CAATgATTT 89 (Mism.= 1)

A total of 3 different REs were found

***OeRD19A* cv. Farga 3'**

Motifs on "-" Strand: Mean Exp. Number 0.00527 Up.Conf.Int. 1 Found 1
28 GGaAATTA 21 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00984 Up.Conf.Int. 1 Found 1
19 aATAATTT 26 (Mism.= 1)

A total of 2 different REs were found

***OeRD19A* cv. Leccino 3'**

Motifs on "-" Strand: Mean Exp. Number 0.00412 Up.Conf.Int. 1 Found 1
28 GGaAATTA 21 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00801 Up.Conf.Int. 1 Found 1
26 aAATTATTT 18 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00765 Up.Conf.Int. 1 Found 1
19 aATAATTT 26 (Mism.= 1)

A total of 3 different REs were found

***OePIP1.1* cv. Farga 5'**

Motifs on "+" Strand: Mean Exp. Number 0.00478 Up.Conf.Int. 1 Found 1
50 ATAtAAATCAA 60 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00268 Up.Conf.Int. 1 Found 1
151 CTCACACT 144 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00170 Up.Conf.Int. 1 Found 1
150 AGAAAGAGA 158 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00418 Up.Conf.Int. 1 Found 1
72 AAGCGgAAGT 63 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00534 Up.Conf.Int. 1 Found 1
145 CTAAACAAG 136 (Mism.= 1)

A total of 5 different REs were found

***OePIP1.1* cv. Leccino 5'**

Motifs on "+" Strand: Mean Exp. Number 0.00530 Up.Conf.Int. 1 Found 1
50 ATAtAAATCAA 60 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00291 Up.Conf.Int. 1 Found 1
151 CTCACACT 144 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00190 Up.Conf.Int. 1 Found 1
150 AGAAAGAGA 158 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00394 Up.Conf.Int. 1 Found 1
72 AAGCGaAAGT 63 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00801 Up.Conf.Int. 1 Found 1
89 TGTGATG 83 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00576 Up.Conf.Int. 1 Found 1
145 CTAAAACAAG 136 (Mism.= 1)

A total of 6 different REs were found

***OePIP1.1* cv. Picual 5'**

Motifs on "+" Strand: Mean Exp. Number 0.00435 Up.Conf.Int. 1 Found 1
50 ATAtAAATCAA 60 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00258 Up.Conf.Int. 1 Found 1
151 CTCACACT 144 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00151 Up.Conf.Int. 1 Found 1
150 AGAAAGAGA 158 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00438 Up.Conf.Int. 1 Found 1
72 AAGCGgAAGT 63 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00543 Up.Conf.Int. 1 Found 1
145 CTAAAACAAG 136 (Mism.= 1)

A total of 5 different REs were found

***OePIP1.1* cv. Farga 3'**

Motifs on "+" Strand: Mean Exp. Number 0.00408 Up.Conf.Int. 1 Found 1
202 AAAGTGGGGaCt 213 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00483 Up.Conf.Int. 1 Found 1
131 TgTCACCAtCTA 120 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00931 Up.Conf.Int. 1 Found 1
145 CTTTTCTAAG 136 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00251 Up.Conf.Int. 1 Found 1
148 CtGAAC TTCAA 159 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00564 Up.Conf.Int. 1 Found 1
44 AGCCCAT 50 (Mism.= 0)

A total of 5 different REs were found

***OePIP1.1* cv. Leccino 3'**

Motifs on "+" Strand: Mean Exp. Number 0.00409 Up.Conf.Int. 1 Found 1
202 AAAGTGGGGaCt 213 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00508 Up.Conf.Int. 1 Found 1
131 TgTCACCAtCTA 120 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00874 Up.Conf.Int. 1 Found 1
145 CTTTTCTAAG 136 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00365 Up.Conf.Int. 1 Found 1
1 gCGATGACATTa 12 (Mism.= 2)

Motifs on "+" Strand: Mean Exp. Number 0.00246 Up.Conf.Int. 1 Found 1
148 CtGAACTTTCAA 159 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00923 Up.Conf.Int. 1 Found 1
14 TTAAATGT 7 (Mism.= 0)

Motifs on "+" Strand: Mean Exp. Number 0.00546 Up.Conf.Int. 1 Found 1
44 AGCCCAT 50 (Mism.= 0)

A total of 7 different REs were found

OeSRP cv. Farga 5'

Motifs on "-" Strand: Mean Exp. Number 0.00432 Up.Conf.Int. 1 Found 1
20 CATGCAA 14 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00894 Up.Conf.Int. 1 Found 1
51 TCCGTGTtCA 41 (Mism.= 2)

Motifs on "-" Strand: Mean Exp. Number 0.00283 Up.Conf.Int. 1 Found 1
194 TTTTtagTGGGTTTTT 179 (Mism.= 3)

Motifs on "+" Strand: Mean Exp. Number 0.00573 Up.Conf.Int. 1 Found 1
3 CCAAATTTG 12 (Mism.= 1)

Motifs on "+" Strand: Mean Exp. Number 0.00191 Up.Conf.Int. 1 Found 1
3 CCAAATTTG 12 (Mism.= 0)

Motifs on "-" Strand: Mean Exp. Number 0.00979 Up.Conf.Int. 1 Found 1
21 GCATGCAA 14 (Mism.= 1)

Motifs on "-" Strand: Mean Exp. Number 0.00192 Up.Conf.Int. 1 Found 1
177 TAGTACAC 170 (Mism.= 0)

A total of 7 different REs were found

OeSRP cv. Leccino 5'

Motifs on "-" Strand: Mean Exp. Number	0.00451	Up.Conf.Int.	1	Found	1
20 CATGCAA	14 (Mism.= 0)				
Motifs on "-" Strand: Mean Exp. Number	0.00984	Up.Conf.Int.	1	Found	1
51 TCCGTGTtCA	41 (Mism.= 2)				
Motifs on "-" Strand: Mean Exp. Number	0.00267	Up.Conf.Int.	1	Found	1
190 TTTTTTGTGGGTTTTT	175 (Mism.= 3)				
Motifs on "+" Strand: Mean Exp. Number	0.00590	Up.Conf.Int.	1	Found	1
3 CCAAATTTG	12 (Mism.= 1)				
Motifs on "+" Strand: Mean Exp. Number	0.00188	Up.Conf.Int.	1	Found	1
3 CCAAATTTG	12 (Mism.= 0)				
Motifs on "-" Strand: Mean Exp. Number	0.00198	Up.Conf.Int.	1	Found	1
173 TAGTACAC	166 (Mism.= 0)				

A total of 6 different REs were found

Figure S1: The amino acid changes and their position in the five out of ten studied genes.

