

Supplementary Fig. 1 Quantitative gel densitometry measurements of B-group proteins in *Glu-B3* NILs as determined using NIL ImageJ software program. Data points were normalized with respect to the Aroona value.

A3-643/FJ549929		: 97
A3-620/FJ549930		: 89
A3-646/FJ549932		: 97
A3-573/FJ549933		: 97
A3-662/FJ549945		: 100
A3-568/FJ549931		: 96
A3-643/FJ549929		: 172
A3-620/FJ549930		: 164
A3-646/FJ549932		: 173
A3-573/FJ549933		: 149
A3-662/FJ549945		: 179
A3-568/FJ549931		: 145
A3-643/FJ549929		: 272
A3-620/FJ549930		: 264
A3-646/FJ549932		: 273
A3-573/FJ549933		: 249
A3-662/FJ549945		: 278
A3-568/FJ549931		: 244
A3-643/FJ549929		: 364
A3-620/FJ549930		: 356
A3-646/FJ549932		: 369
A3-573/FJ549933		: 336
A3-662/FJ549945		: 370
A3-568/FJ549931		: 336

Supplementary Fig. 2 Sequence alignments of i-type proteins identified in Aroona NILs.

B3-530-1/EU369724 METSHIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQPFPQQPPCSQQQQPPIIQQQQPPFSQQQQPPFSQQQQPILPQQPPFSQQ : 85

B3-530-3/EU369729 METSHIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQPFPQQPPCSQQQQPPIIQQQQPPFSQQQQPPFSQQQQPVLPQQPPFSQQ : 85

B3-530-2/EU369719 METSHIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQPFPQQPPCSQQQQPPIIQQQQPPFSQQQQPPFEIQQQQPVLPQQPPFSQQ : 85

B3-510/EU369720 METSHIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQPFPQQPPCSQQQQPPIIQQQQPPFSQQQQPPFSQQQQPVLPQQPPFSQQ : 85

B3-530-1/EU369724 QQQFPQQQQPILLPQQPPFSQQQQPPFSQQQQQPFESQQQQQPIIILQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCS : 170

B3-530-3/EU369729 QQQFPQQQQPILLPQQPPFSQQQQPPFSQQQQQPFESQQQQQPIIILQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCS : 170

B3-530-2/EU369719 QQQFPQQQQPILLPQQPPFSQQQQPPFSQQQQQPFESQQQQQPIIILQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCS : 170

B3-510/EU369720 -----QQQPLLPQQPPFSQQQQPPFSQQQQQPFESQQQQQPIIISQQQQQIQIIIPQQPPFSQHQQPVLPQQQIPSVQPSILQQLNPCKVFLQQQCS : 163

B3-530-1/EU369724 PVAMPQSLARSQMLWQSSCHVMQQQCCRQLPQIPEQSRYDAIRAIYISIVLQEQQHQQGLNQPQQQQPQQSVQGVSQPQQQQKQI : 255

B3-530-3/EU369729 PVAMPQSLARSQMLWQSSCHVMQQQCCRQLPQIPEQSRYDAIRAIYISIVLQEQQHQQGLNQPQQQQPQQSVQGVSQPQQQQKQI : 255

B3-530-2/EU369719 PVAMPQSLARSQMLWQSSCHVMQQQCCRQLPQIPEQSRYDAIRAIYISIVLQEQQHQQGLNQPQQQQPQQSVQGVSQPQQQQKQI : 255

B3-510/EU369720 PVAMPQSLARSQMLWQSSCHVMQQQCCRQLPQIPEQSRYDAIRAIYISIVLQEQQHQQGLNQPQQQQPQQSVQGVSQPQQQQKQI : 248

B3-530-1/EU369724 GQCSFQQPQQQQQLGQWPQQQQVPQGTLLQPHQIAQLEVMTSIALRTLPTMCNVNPVYGTIIIVPFGVGTRVGAY : 330

B3-530-3/EU369729 GQCSFQQPQQQQQLGQWPQQQQVPQGTLLQPHQIAQLEVMTSIALRTLPTMCNVNPVYGTIIIVPFGVGTRVGAY : 330

B3-530-2/EU369719 GQCSFQQPQQQQQLGQWPQQQQVPQGTLLQPHQIAQLEVMTSIALRTLPTMCNVNPVYGTIIIVPFGVGTRVGAY : 330

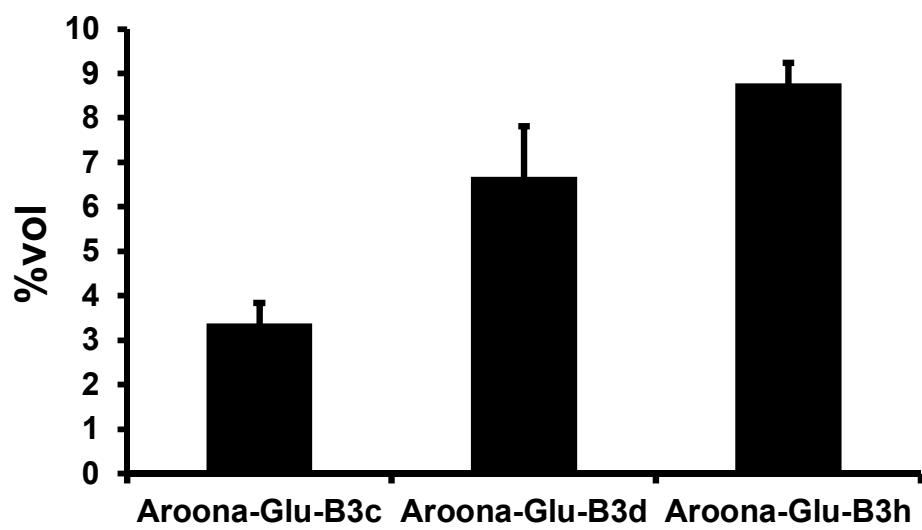
B3-510/EU369720 GQCSFQQPQQQQQLGQWPQQQQVPQGTLLQPHQIAQLEVMTSIALRTLPTMCNVNPVYGTIIIVPFGVGTRVGAY : 323

Supplementary Fig. 3 Sequence alignments of the B3-530 protein and its allelic variants identified in Aroona NILs.

Supplementary Fig. 4 Sequence alignments of the B3-544/593/601/607 proteins identified in Aroona NILs.

B3-624/EU369704	MENSHIPGLERPSQQQPLPPQQTLSHHQQQQPIQQQPFQFSQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 80
B3-621-2/EU369705	MENSHIPGLERPSQQQPLPPQQTLSHHQQQQPIQQQPFQFSQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 79
B3-621-1/EU369721	MENSHIPGLERPSQQQPLPPQQTLSHHQQQQPIQQQPFQFSQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 79
B3-688-2/EU369716	MENSHIPGLERPSQQQPLPPQQTLSHHHQQQQPIQQQPHQFEEQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 95
B3-688-4/EU369718	MENSHIPGLERPSQQQPLPPQQTLSHHHQQQQPIQQQPHQFEEQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 95
B3-688-1/EU369715	MENSHIPGLERPSQQQPLPPQQTLTHHQQQQPIQQQPHQFEEQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 95
B3-688-3/EU369717	MENSHIPGLERPSQQQPLPPQQTLTHHQQQQPIQQQPHQFEEQQQPCSQQQCQLSQQQQPPFSSQQCQPPFSQQCQPPFSQQCQ : 95
B3-624/EU369704	QQQPPFSQQC-----PFPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 166
B3-621-2/EU369705	QQQPPFSQQC-----PFPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 165
B3-621-1/EU369721	QQQPPFSQQC-----PFPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 165
B3-688-2/EU369716	QQQPPFSQQCQPVLPQPFQFSQQCIPPFSSQCLIPPFSSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 189
B3-688-4/EU369718	QQQPPFSQQCQPVLPQPFQFSQQCIPPFSSQCIIPPFSSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 189
B3-688-1/EU369715	QQQPPFSQQCQPVLPQPFQFSQQCIPPFSSQCLIPPFSSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 189
B3-688-3/EU369717	QQQPPFSQQCQPVLPQPFQFSQQCIPPFSSQCIIPPFSSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQPPFSQQCQ : 189
B3-624/EU369704	QQQCQLIIVPFPQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 261
B3-621-2/EU369705	QQQCQLIIVPFPQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 260
B3-621-1/EU369721	QQQCQLIIVPFPQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMMQCCQCCQQLPQIPQQSRYEAIRAIIVSIIQLQECCQVQG : 260
B3-688-2/EU369716	QQQR-EVIIQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 283
B3-688-4/EU369718	QQQQ-EVIIQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 283
B3-688-1/EU369715	QQQQ-EVIIQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 283
B3-688-3/EU369717	QQQQ-EVIIQQQIPFVHPHSILQQQLNPKCKVFLQQQCSPVAMPQSLARSQMLQQSCHVMQQCCQQLPQIPQQSRYEAIRAIIVSIIQLQEQQQVQG : 283
B3-624/EU369704	SIQT PQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 350
B3-621-2/EU369705	SIQT PQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 349
B3-621-1/EU369721	SIQT PQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 349
B3-688-2/EU369716	SIQT QQQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 372
B3-688-4/EU369718	SIQT QQQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 372
B3-688-1/EU369715	SIQT QQQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTISVPFGVGTGVGSY : 372
B3-688-3/EU369717	SIQT QQQQQPQQQLGQCVCSPQQCSQQQLGQQPQQQLAQQTFLQPHQIAQLEVMTSIALRTLPTMCRVNVNSLYRTTISVPFGVGTGVGSY : 372

Supplementary Fig. 5 Sequence alignments of the B3-621/624 and B3-688 proteins identified in Aroona NILs.



Supplementary Fig. 6 The differential display of B3-688 spots among Aroona-*Glu-B3c*, *B3d* and *B3h*. Spot volume values are expressed in percentages (%vol) of the total proteome