

Supplementary Table S2

Summary of QTLs detected in pea for stress resistance and agronomic traits

Trait	Loci/QTL	Reference number
Biotic stress resistance		
<i>Fusarium solani</i> resistance	3 QTLs	149
<i>Fusarium solani</i> resistance	3 QTLs	150
<i>Fusarium solani</i> resistance	1 QTL	151
<i>Fusarium oxysporum</i> resistance	3 QTLs	156
<i>Ascochyta pisi</i> resistance	3 QTLs	168
<i>Mycophaerella pinodes</i> resistance	3 QTLs	161
<i>Mycophaerella pinodes</i> resistance	13 QTLs	159
<i>Mycophaerella pinodes</i> resistance	11 QTLs	160
<i>Mycophaerella pinodes</i> resistance	14 QTLs	160
<i>Mycophaerella pinodes</i> resistance	10 QTLs	162
<i>Mycophaerella pinodes</i> resistance	6 QTLs	162
<i>Mycophaerella pinodes</i> resistance	7 QTLs	163
<i>Uromyces pisi</i> resistance	1 QTL	179
<i>Uromyces fabae</i> resistance	2 QTLs	182
<i>Aphanomyces euteiches</i> resistance	1 QTL	183
<i>Aphanomyces euteiches</i> resistance	7 QTLs	184
<i>Aphanomyces euteiches</i> resistance	6 QTLs	185
<i>Aphanomyces euteiches</i> resistance	5 QTLs	186
<i>Pseudomonas syringae</i> resistance	2 QTLs	188
<i>Orobancha crenata</i> resistance	2 QTLs	192
<i>O. crenata</i> field resistance	5 QTLs	193
<i>O. crenata</i> seed germination	2 QTLs	193
<i>O. crenata</i> tubercle development	3 QTLs	193
Abiotic stress resistance		
Winter frost tolerance	6 QTLs	208
Winter frost tolerance	4 QTLs	227
Frost damage	4 QTLs	227
Raffinose content	2 QTLs	227
Glucose content	1 QTL	227
Electrolyte leakage	1 QTL	227
Rubisco content	1 QTL	227
Seed traits		
Seed weight	3 QTLs	214
Seed weight	7 QTLs	214
Seed weight	5 QTLs	220
Seed weight	10 QTLs	217
Seed weight	9 QTLs	221
Seed yield	6 QTLs	221
Seed yield	6 QTLs	220

Seed yield	4 QTLs	218
Seed yield	5 QTLs	217
Seed yield	4-2 QTLs	222
Seed number	9 QTLs	217
Seed number	5 QTLs	220
Seed number	5 QTLs	221
Seed number	2-3 QTLs	222
Protein content	5 QTLs	220
Protein content	3 QTLs	218
Protein content	8 QTLs	221
Protein content	2-4 QTLs	222
Protein content	2-6 QTLs	131
Protein content	2-4 QTLs	131
Protein content	5 QTLs	131
Protein digestibility	1 QTLs	131
11S (FPLC)	5 QTLs	131
11S (FPLC)	4 QTLs	131
7S (FPLC)	7 QTLs	131
7S (FPLC)	5 QTLs	131
PA1 (FPLC)	4 QTLs	131
PA1 (FPLC)	2 QTLs	131
PA2 (FPLC)	4 QTLs	131
PA2 (FPLC)	5 QTLs	131
245 polypeptides' quantity	1-6 QTLs	131
Number of cotyledon cells	2 QTLs	221
Volume of cotyledon cells	4 QTLs	221
Yellow seed lightness	9 QTLs	226
Yellow seed greenness	3 QTLs	226
Seed shape	15 QTLs	226
Seed dimpling	9 QTLs	226
Plant phenology		
Days to maturity	4 QTLs	218
First flowering node	4 QTLs	217
Beginning of flowering	8 QTLs	221
End of flowering	8 QTLs	221
50% flowering	4 QTLs	163
Plant morphology		
Lodging resistance	2 QTLs	161
Plant height	3 QTLs	161
Plant height	4 QTLs	221
Root length	3 QTLs	193
Total root length	1-2 QTL	222
Total root elongation rate	4 QTLs	222
Root biomass	1-2 QTLs	222
Number of lateral root	1-2 QTLs	222
Nodule biomass	1-3 QTLs	222
Number of nodules	1-4 QTLs	222

Plant biomass	3 QTLs	163
Plant biomass	6 QTLs	221
Plant biomass	1-5 QTLs	222
Vegetative biomass at harvest	7 QTLs	221
Vegetative biomass at harvest	3-3 QTLs	222
Number of basal branches	7 QTLs	221
Number of basal branches	3-4 QTLs	222
Number of nodes	6 QTLs	217
Number of flowering nodes	5 QTLs	217
Harvest index	4 QTLs	217
Harvest index	7 QTLs	221
Plant physiology		
Nitrogen harvest index	8 QTLs	221
Nitrogen nutrition index	3 QTLs	221
Plant %N at BSF	6 QTLs	221
Plant %N at BSF	2-3 QTLs	222
Plant %N at harvest	5 QTLs	221
Plant %N at harvest	1-1 QTL	222
RUE	3 QTLs	222
SPAD	2 QTLs	222