Table S1-Predicted cross-reactive epitopes within glycinins from different plant sources

A3-epitope 1

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	O82580	0.00	28	GYIETWNPNNQEFECAGVAL	47
2	Ara h 4	5712199	0.00	51	GYIETWNPNNQEFECAGVAL	70
3	Ara h 3	3703107	0.00	31	GYIETWNPNNQEFECAGVAL	50
4	Gly m 6.0201	P04405	2.79	47	GFIETWNPNNKPFQCAGVAL	66
5	Gly m glycinin G2	295800	2.79	47	GFIETWNPNNKPFQCAGVAL	66
6	Gly m 6.0301	P11828	2.79	50	GFIETWNPNNKPFQCAGVAL	69
7	Jug r 4.0101	Q2TPW5	2.94	55	GVIESWDPNNQQFQCAGVAV	74
8	Jug n 4.0101	JUGN4_JUGNI	2.94	54	GVIESWDPNNQQFQCAGVAV	73
11	Car i 4.0101	158998780	4.03	56	GVIESWDPNHQQLQCAGVAV	75
12	Pis v 5.0101	171853009	4.28	52	GMVETWDPNHEQFRCAGVAV	71
13	Ana o 2	25991543	4.45	44	GTVEAWDPNHEQFRCAGVAL	63
14	Pru du 6.0101	307159112	4.83	51	GQIETWNFNQEDFQCAGVAA	70
15	Cor a 9	18479082	5.37	57	CQIESWDHNDQQFQCAGVAV	76
16	Pru du 6	258588247	5.38	31	GQIETWNFNQGDFQCAGVAA	50
17	Ses i 7.0101	Q9AUD2	5.50	68	GLTEFWDRNNQQFECAGVAA	87

A3-epitope 2

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	3703107	0.00	91	HYEEPHTQGRRSQSQR	106
2	Ara h 3	O82580	0.00	88	HYEEPHTQGRRSQSQR	103
3	Ara h 4	5712199	3.69	111	TYEEPAQQGRRYQSQR	126
4	Gly m glycinin G2	295800	6.86	107	TYQEPQESQQRGRSQR	122
5	Gly m 6.0201	P04405	6.86	107	TYQEPQESQQRGRSQR	122
6	Gly m 6.0101	P04776	7.16	110	TFEEPQQPQQRGQSSR	125
7	Gly m glycinin G1	169973	7.16	110	TFEEPQQPQQRGQSSR	125
8	Gly m 6.0301	P11828	7.24	110	TFEEPQQKGQSSRPQD	125
9	Jug r 4.0101	Q2TPW5	7.77	115	TFEESQRQSQQGQSRE	130

A3-epitope 3 QQQRDSHQKVHRFDEGD

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	O82580	0.00	115	QQQRDSHQKVHRFDEGD	131
2	Ara h 3	3703107	0.00	118	QQQRDSHQKVHRFDEGD	134
3	Ara h 4	5712199	0.86	138	QQQQDSHQKVHRFNEGD	154
4	Gly m 6.0501	Q7GC77	4.01	129	QQLQDSHQKIRHFNEGD	145
5	Gly m 6.0401	Q9SB11	4.01	129	QQLQDSHQKIRHFNEGD	145
6	Gly m 6.0201	P04405	4.08	121	QRPQDRHQKVHRFREGD	137

7	Gly m glycinin G2	295800	4.08	121	QRPQDRHQKVHRFREGD	137
8	Gos h 4	P09800	4.96	141	RPQRDQHQKLRRLKEGD	157
9	Zan_b_2.02	QYU76044	5.84	78	SRSQDQHQKVRQIREGD	94
10	QYS16039	QYS16039	5.84	81	SRSQDQHQKVRQIREGD	97
11	Jug n 4.0101	JUGN4_JUGNI	5.89	133	SFQRDRHQKIRHFREGD	149
12	Zan b 2.0101	QYU76045	5.96	78	SRSQDQHQKVRQLREGD	94
13	Zan b 2.0102	QYU76046	5.96	78	SRSQDQHQKVRQLREGD	94
14	Pru du 6.0201	307159114	5.97	137	EDQQDRHQKIRHIREGD	153
15	Cor a 9	18479082	6.21	138	RSEQDRHQKIRHFREGD	154
16	Jug r 4.0101	Q2TPW5	6.29	130	EFQQDRHQKIRHFREGD	146
17	Car i 4.0101	158998780	6.29	131	EFQQDRHQKIRHFREGD	147
18	Pis v 5.0101	171853009	6.41	126	SRFQDKHQKIQRFRKGD	142
19	Pis v 2.0201	110349084	6.62	142	QQSGEQHQKVRHIREGD	158

Ara h 3-epitope 4 PRRFNLAGNTEQEFLRYQQQSRQ

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	O82580	0.00	170	PRRFNLAGNTEQEFLRYQQQSRQ	192
2	Ara h 3	3703107	0.00	173	PRRFNLAGNTEQEFLRYQQQSRQ	195
3	Ara h 4	5712199	0.53	193	PRRFNLAGNHEQEFLRYQQQSRQ	215
4	Gly m 6.0201	P04405	3.46	176	PRRFYLAGNQEQEFLKYQQQQQG	198
5	Gly m glycinin G2	295800	3.46	176	PRRFYLAGNQEQEFLKYQQQQQG	198
6	Gly m 6.0301	P11828	3.63	176	PRRFYLAGNQEQEFLQYQPQKQQ	198
7	Gly m glycinin G1	169973	4.74	179	PRRFYLAGNQEQEFLKYQQEQGG	201
8	Gly m 6.0101	P04776	4.74	179	PRRFYLAGNQEQEFLKYQQEQGG	201
9	Pis v 5.0101	171853009	5.11	181	PRKFNLAGNPEDEFQQQQQQQSR	203
10	Pru du 6.0201	307159114	7.31	192	PRRFYLAGNPQDEFNPQQQGRQQ	214
11	Sin a 2.0101	Q2TLW0	7.45	227	PRTFRLAGNNQQGSSQQQQQQQQ	249
12	Gos h 3	P09802	7.61	181	PRRFHLAGNPEEEQRQLRRLAQQ	203
13	Ana o 2	25991543	7.66	173	PRKFHLAGNPKDVFQQQQQHQSR	195
14	Pru du 6	258588247	7.82	219	PRKFYLAGNPENEFNQQGQSQPR	241
15	Pru du 6.0101	307159112	7.82	239	PRKFYLAGNPENEFNQQGQSQPR	261
16	Jug n 4.0101	JUGN4_JUGNI	8.82	188	PRNFYLAGNPDDEFRPQGQQEYE	210
17	Jug r 4.0101	Q2TPW5	8.82	185	PRNFYLAGNPDDEFRPQGQQEYE	207
18	Car i 4.0101	158998780	8.82	186	PRNFYLAGNPDDEFRPQGQQEYE	208
19	Gly m 6.0401	Q9SB11	8.86	184	PRVFYLAGNPDIEYPETMQQQQQ	206
20	Cor a 9	18479082	8.91	193	PRHFYLAGNPDDEHQRQGQQQFG	215

Ara h 3-epitope 5

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	3703107	0.00	242	IFSGFTPEFLEQAFQVD	258
2	Ara h 3	O82580	0.00	239	IFSGFTPEFLEQAFQVD	255

3	Ara h 4	5712199	0.00	262	IFSGFTPEFLEQAFQVD	278
4	Cuc ma 4.0101	11SB_CUCMA	2.71	230	IFSGFADEFLEEAFQID	246
5	Gly m 6.0301	P11828	3.04	219	ILSGFAPEFLEHAFVVD	235
6	Gly m glycinin G1	169973	3.25	220	ILSGFTLEFLEHAFSVD	236
7	Gly m 6.0101	P04776	3.25	220	ILSGFTLEFLEHAFSVD	236
8	Gly m glycinin G2	295800	4.24	217	ILSGFAPEFLKEAFGVN	233
9	Gly m 6.0201	P04405	4.24	217	ILSGFAPEFLKEAFGVN	233
10	Ana o 2	25991543	4.34	199	LFSGFDTELLAEAFQVD	215
11	Car i 4.0101	158998780	4.52	234	VFSGFDAEFLADAFNVD	250
12	Cor a 9	18479082	4.52	240	VFSGFDAEFLADAFNVD	256
13	Sin a 2.0101	Q2TLW0	5.05	251	ILSGFDPQVLAQALKID	267
14	Jug n 4.0101	JUGN4_JUGNI	5.13	236	VFSGFDADFLADAFNVD	252
15	Jug r 4.0101	Q2TPW5	5.13	233	VFSGFDADFLADAFNVD	249
16	Pru du 6.0201	307159114	5.31	228	IFSGFDTQLLAQALNVN	244
17	Pru du 6	258588247	5.39	271	VFSGFNTQLLAQALNVN	287
18	Pru du 6.0101	307159112	5.39	291	VFSGFNTQLLAQALNVN	307
19	Ses i 7.0101	Q9AUD2	5.52	228	IFNGFDDEILADAFGVD	244
20	Zan b 2.0101	QYU76045	6.60	175	IFNGFDERLLADAFNVN	191
21	Zan b 2.0102	QYU76046	6.60	175	IFNGFDERLLADAFNVN	191
22	QYS16039	QYS16039	6.67	176	IFNGFDERLLAEAFNVN	192
23	Pis s 1.0101	CAF25232	6.69	146	LLSGFSKNILEAAFNTN	162
24	Pis s 1.0102	CAF25233	6.69	146	LLSGFSKNILEAAFNTN	162

Ara h 3-epitope 6-NO MATCH FOUND=IVTVRGGLRILSPDRK

Ara h 3-epitope 7

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	O82580	0.00	300	DEDEYEYDEEDRRRGRGSR	318
2	Ara h 3	3703107	0.00	303	DEDEYEYDEEDRRRGRGSR	321
3	Ara h 4	5712199	3.24	323	DEDQYEYHEQDGRRGRGSR	341
4	Fag e 1	2317674	7.65	291	FEEEYERERGDRRRGQGGS	309
5	Pis v 2.0101	110349082	7.93	280	QEQEQEYEEERERRQRNGL	298
6	Lup an 1.0101	169950562	8.46	59	EEQEREHRREEKHDGEPSR	77
7	Car i 2.0101	VCL_CARIL	8.51	184	EEEQRRQEERERRRGRDND	202
8	Jug r 2	6580762	8.80	47	EEDQRSQEERERRRGRDVD	65
9	Car i 2.0101	VCL_CARIL	8.82	243	EEEQRKQEERERRRGRDED	261
10	Gly m 6.0401	Q9SB11	8.86	334	DQDQDEDEDEDEDQPRKSR	352
11	Car i 2.0101	VCL_CARIL	8.97	211	REQYRQCQEHCRRQGQGQR	229
12	Car i 2.0101	VCL_CARIL	9.02	152	REQYRQCEEHCRRQGQGQR	170
13	Gos h 2	P09799	9.20	63	DRSETQLKEEQQRDGEDPQ	81
14	Gly m 6.0401	Q9SB11	9.31	283	DEDEDEDDEDEQIPSHPPR	301
15	Car i 2.0101	VCL_CARIL	9.40	295	CEQQRQQEERERQRGRDRQ	313

16	Jug r 4.0101	Q2TPW5	9.40	294	RERERESESERRQSRRGGR	312
17	Jug n 4.0101	JUGN4_JUGNI	9.40	297	RERERESESERRQSRRGGR	315
18	Car i 4.0101	158998780	9.40	295	RERERESESERRQSRRGGR	313
19	Gos h 4	P09800	9.40	313	SQEEGSEEEEREERGRGRR	331
20	Pis v 5.0101	171853009	9.42	188	GNPEDEFQQQQQQQSRGRR	206
21	Gos h 2	P09799	9.46	472	EEEEQEEQEVERRSGQYKR	490
22	Pis v 5.0101	171853009	9.49	190	PEDEFQQQQQQQSRGRRQS	208
23	Jug r 2	6580762	9.59	15	REQYRQCQEYCRRQGQGQR	33
24	Gly m 6.0401	Q9SB11	9.68	307	KREQDEDEDEDEDKPRPSR	325
25	Jug r 2	6580762	9.70	99	CEQRRQQEERERQRGRDRQ	117
26	Cor a 9	18479082	9.76	300	RESEQERERQRRQGGRGRD	318

Ara h 3 epitope 8

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Ara h 3	O82580	0.00	480	REQARQLKNNNPFKFFVPP	498
2	Ara h 3	3703107	0.00	483	REQARQLKNNNPFKFFVPP	501
3	Ara h 4	5712199	0.00	503	REQARQLKNNNPFKFFVPP	521
4	Gly m glycinin G1	169973	2.38	468	SQQARQIKNNNPFKFLVPP	486
5	Gly m 6.0101	P04776	2.38	468	SQQARQIKNNNPFKFLVPP	486
6	Gly m 6.0301	P11828	2.41	454	RQQARQVKNNNPFSFLVPP	472
7	Gly m glycinin G2	295800	3.34	458	SQQARQVKNNNPFSFLVPP	476
8	Gly m 6.0201	P04405	3.34	458	SQQARQVKNNNPFSFLVPP	476
9	Gos h 3	P09802	7.56	482	REDARRIKFNNKNTFFFTP	500
10	Pru du 6	258588247	8.42	505	REQARQLKYNRQETIALSS	523
11	Pru du 6.0101	307159112	8.42	525	REQARQLKYNRQETIALSS	543
12	Pis v 2.0101	110349082	9.14	454	REDARRLKESRSETTIFAP	472
13	Cor a 9	18479082	9.53	478	REEARRLKYNRQETTLVRS	496
14	Ana o 2	25991543	9.61	429	REDARKIKFNNQQTTLTSG	447
15	Jug n 4.0101	JUGN4_JUGNI	9.87	476	REDARRLKFNRQESTLVRS	494
16	Jug r 4.0101	Q2TPW5	9.87	473	REDARRLKFNRQESTLVRS	491
17	Car i 4.0101	158998780	9.87	474	REDARRLKFNRQESTLVRS	492

Jug r 4 epitope 2

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Jug r 4.0101	Q2TPW5	0.00	112	CPETFEESQRQSQQGQS	128
2	Car i 4.0101	158998780	1.03	113	CPETFEESQRQSQQGQR	129
3	Pru du 6	258588247	2.46	88	CPETFEESQQSSQQGRQ	104
4	Pru du 6.0101	307159112	2.46	108	CPETFEESQQSSQQGRQ	124
5	Cor a 9	18479082	2.96	114	CPETFEDPQQQSQQGQR	130

6	Gly m 6.0101	P04776	4.73	107	CPSTFEEPQQPQQRGQS	123
7	Gly m glycinin G1	169973	4.73	107	CPSTFEEPQQPQQRGQS	123
8	Gly m 6.0401	Q9SB11	5.66	108	CPETFEEPQEQSNRRGS	124
9	Ana o 2	25991543	5.90	101	CPETYQAPQQGRQQGQS	117
10	Pis v 5.0101	171853009	6.01	109	CPETYQAPQQGQQHGQS	125
11	Gly m 6.0501	Q7GC77	6.11	109	CPETFEKPQQQSSRRGS	125
12	Gly m 6.0301	P11828	6.16	107	CPSTFEEPQQKGQSSRP	123
13	Gly m glycinin G2	295800	6.65	104	CPSTYQEPQESQQRGRS	120
14	Gly m 6.0201	P04405	6.65	104	CPSTYQEPQESQQRGRS	120
15	Jug n 4.0101	JUGN4_JUGNI	6.76	111	CPETFEESQQGQSRIRP	127
16	Ara h 3	O82580	6.80	85	CPRHYEEPHTQGRRSQS	101
17	Ara h 3	3703107	6.80	88	CPRHYEEPHTQGRRSQS	104
18	Pis v 2.0201	110349084	7.11	119	CPETFQEESQSQSRSQH	135
19	Ara h 4	5712199	7.23	108	CPSTYEEPAQQGRRYQS	124

Jug r 4-epitope 3

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Jug r 4.0101	Q2TPW5	0.00	111	GCPETFEESQRQSQQGQSR	129
2	Car i 4.0101	158998780	0.93	112	GCPETFEESQRQSQQGQRR	130
3	Pru du 6.0101	307159112	2.66	107	GCPETFEESQQSSQQGRQQ	125
4	Pru du 6	258588247	2.66	87	GCPETFEESQQSSQQGRQQ	105
5	Cor a 9	18479082	3.10	113	GCPETFEDPQQQSQQGQRQ	131
6	Gly m 6.0401	Q9SB11	5.06	107	GCPETFEEPQEQSNRRGSR	125
7	Gly m glycinin G1	169973	5.16	106	GCPSTFEEPQQPQQRGQSS	124
8	Gly m 6.0101	P04776	5.16	106	GCPSTFEEPQQPQQRGQSS	124
9	Gly m 6.0501	Q7GC77	5.47	108	GCPETFEKPQQQSSRRGSR	126
10	Gly m 6.0301	P11828	5.96	106	GCPSTFEEPQQKGQSSRPQ	124
11	Pis v 5.0101	171853009	6.31	108	GCPETYQAPQQGQQHGQSS	126
12	Gly m 6.0201	P04405	6.41	103	GCPSTYQEPQESQQRGRSQ	121
13	Gly m glycinin G2	295800	6.41	103	GCPSTYQEPQESQQRGRSQ	121
14	Gos h 3	P09802	6.52	109	GCAETFQDSQQWQHQSRGR	127
15	Ara h 3	3703107	6.54	87	GCPRHYEEPHTQGRRSQSQ	105
16	Ara h 3	O82580	6.54	84	GCPRHYEEPHTQGRRSQSQ	102
17	Ana o 2	25991543	6.73	100	GCPETYQAPQQGRQQGQSG	118
18	Ara h 4	5712199	6.92	107	GCPSTYEEPAQQGRRYQSQ	125
19	Jug n 4.0101	JUGN4_JUGNI	6.97	110	GCPETFEESQQGQSRIRPS	128

Jug r 4 epitope 4

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Jug r 4.0101	Q2TPW5	0.00	149	AFPAGVAHWSYNDGSNP	165
2	Car i 4.0101	158998780	1.55	150	AFPAGVAHWCYNDGSSP	166
3	Jug n 4.0101	JUGN4_JUGNI	2.43	152	AFPAGVAHWCYNDGDTP	168
4	Cor a 9	18479082	2.81	157	ALPAGVAHWCYNDGDSP	173
5	Ana o 2	25991543	3.06	137	AIPAGVAHWCYNEGNSP	153
6	Pru du 6.0201	307159114	3.29	156	ALPAGVAYWSYNNGEQP	172
7	Pru du 6	258588247	3.87	183	AIPAGVAYWSYNDGDQE	199
8	Pru du 6.0101	307159112	3.87	203	AIPAGVAYWSYNDGDQE	219
9	Pis v 5.0101	171853009	3.91	145	ALPAGVANWCYNEGNSP	161
10	Pis v 2.0101	110349082	4.84	156	ALPAGVAHWIYNNGQSK	172
11	Pis v 2.0201	110349084	4.84	161	ALPAGVAHWIYNNGQSK	177
12	Gos h 3	P09802	5.10	145	ALPQGVVHWSYNDGNER	161
13	Ber e 2	30313867	5.18	147	AIPAGVALWCYNDGDED	163
14	Ses i 6.0101	Q9XHP0	5.23	154	AIPSGAAHWCYNDGSED	170
15	Gos h 4	P09800	5.74	160	ALPAGVAHWIFNNGRSQ	176
16	Ses i 7.0101	Q9AUD2	6.26	160	ALPAGLTLWFYNNGGEP	176
17	Zan_b_2.02	QYU76044	6.30	97	ALPTGAAHWIYNNGGSQ	113
18	Mac i 2.01	11S1_MACIN	6.48	81	VLPAGVAHWCLNDGKHY	97
19	Zan b 2.0102	QYU76046	6.72	97	AMPTGSAHWIYNNGQSQ	113
20	QYS16039	QYS16039	6.73	100	ALPTGSAHWIYNNGQSQ	116
21	Zan b 2.0101	QYU76045	6.85	97	AVPTGSAHWIYNNGQSQ	113
22	Cuc ma 4.0101	11SB_CUCMA	7.02	159	VVPAGVSHWMYNRGQSD	175
23	Gly m glycinin G1	169973	7.02	143	AVPTGVAWWMYNNEDTP	159
24	Gly m 6.0201	P04405	7.02	140	AVPTGVAWWMYNNEDTP	156
25	Gly m glycinin G2	295800	7.02	140	AVPTGVAWWMYNNEDTP	156
26	Gly m 6.0101	P04776	7.02	143	AVPTGVAWWMYNNEDTP	159
27	Fag e 1	2317670	7.09	228	PSPAGVVQWTHNDGDND	244
28	Fag e 1	2317674	7.19	171	PSPAGVVQWTHNDGNDD	187
29	Fag e 1	29839419	7.44	198	PSPAGVVQWTHNNGDND	214
30	Gly m 6.0301	P11828	7.49	140	AVPTGFAYWMYNNEDTP	156
31	Ara h 3	O82580	7.55	134	AVPTGVAFWLYNDHDTD	150
32	Ara h 4	5712199	7.55	157	AVPTGVAFWLYNDHDTD	173
33	Ara h 3	3703107	7.55	137	AVPTGVAFWLYNDHDTD	153

Jug r 4-epitope 5

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue

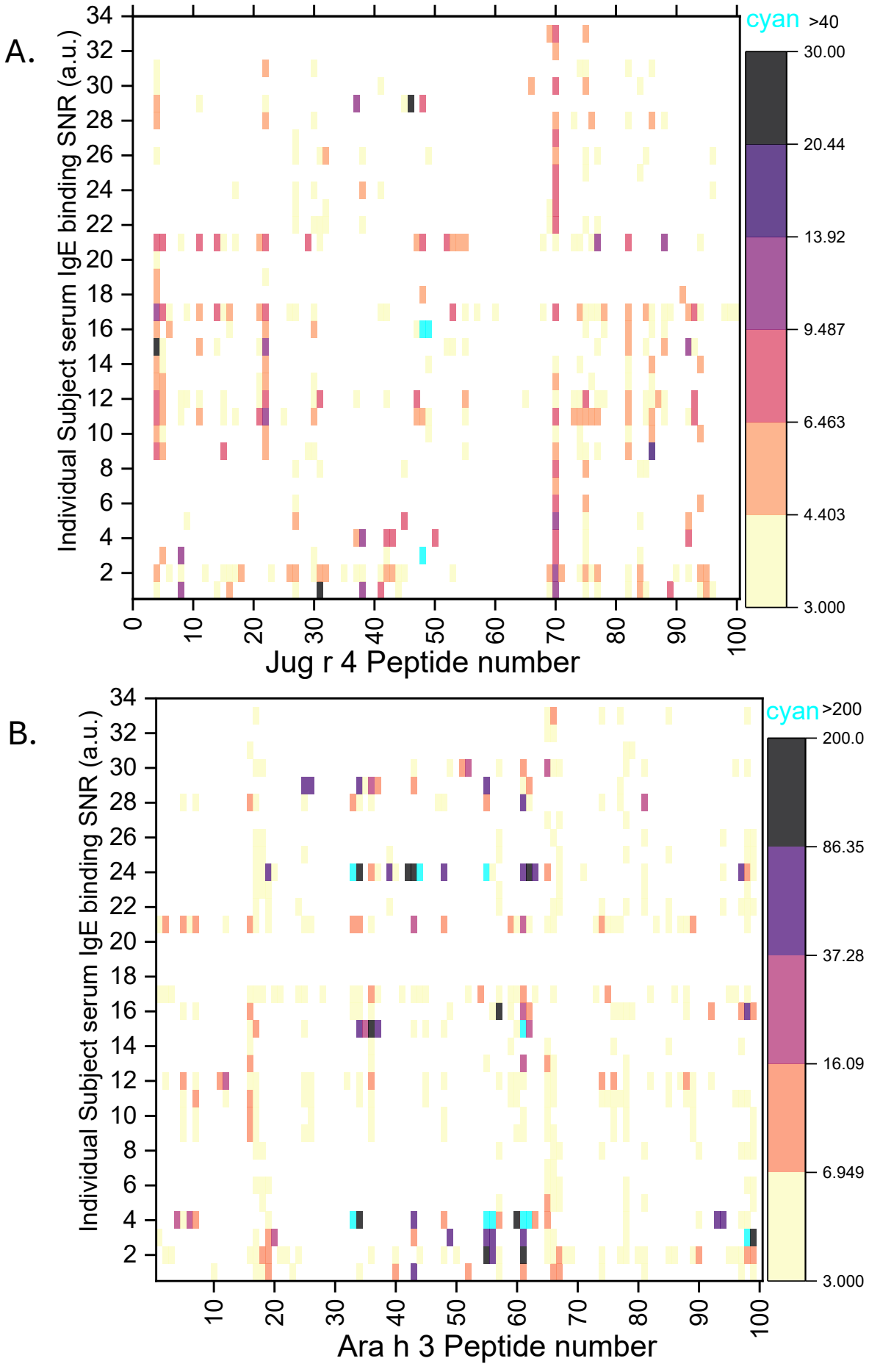
1	Jug r 4.0101	Q2TPW5	0.00	232	NVFSGFDADFLADAFN	247
2	Jug n 4.0101	JUGN4_JUGNI	0.00	235	NVFSGFDADFLADAFN	250
3	Cor a 9	18479082	0.65	239	NVFSGFDAEFLADAFN	254
4	Car i 4.0101	158998780	0.65	233	NVFSGFDAEFLADAFN	248
5	Zan b 2.0101	QYU76045	3.40	174	NIFNGFDERLLADAFN	189
6	Zan b 2.0102	QYU76046	3.40	174	NIFNGFDERLLADAFN	189
7	Pru du 6.0201	307159114	3.52	227	NIFSGFDTQLLAQALN	242
8	Pru du 6	258588247	3.55	270	NVFSGFNTQLLAQALN	285
9	Pru du 6.0101	307159112	3.55	290	NVFSGFNTQLLAQALN	305
10	Ana o 2	25991543	3.81	198	NLFSGFDTELLAEAFQ	213
11	Zan_b_2.02	QYU76044	3.88	172	NMFNGFDERLLADAFN	187
12	QYS16039	QYS16039	4.05	175	NIFNGFDERLLAEAFN	190
13	Ses i 7.0101	Q9AUD2	4.06	227	NIFNGFDDEILADAFG	242
14	Coc n 1.0101	A0A0S3B0K0_COCNU	5.17	190	SVLSGFDASTLSAAFN	205
15	Gos h 4	P09800	5.23	242	NVLSGFRDNLLAQAFG	257
16	Ses i 6.0101	Q9XHP0	5.44	215	NIFRAFDAELLSEAFN	230
17	Ara h 4	5712199	5.45	261	NIFSGFTPEFLEQAFQ	276
18	Ara h 3	3703107	5.45	241	NIFSGFTPEFLEQAFQ	256
19	Ara h 3	O82580	5.45	238	NIFSGFTPEFLEQAFQ	253

Jug r 4-epitope 9

No	Allergen	Link to NCBI/ PIR/SwissProt	*PD* Sequence Similarity Index	Start Residue	Matching region	End Residue
1	Jug r 4.0101	Q2TPW5	0.00	465	LATAFQIPREDARRLKFNRQESTLVR	490
2	Jug n 4.0101	JUGN4_JUGNI	0.78	468	LANALQIPREDARRLKFNRQESTLVR	493
3	Car i 4.0101	158998780	1.04	466	LVNAFQIPREDARRLKFNRQESTLVR	491
4	Cor a 9	18479082	2.08	470	LANAFQISREEARRLKYNRQETTLVR	495
5	Ana o 2	25991543	3.99	421	LANAFQISREDARKIKFNNQQTTLTS	446
6	Pis v 5.0101	171853009	4.89	437	LANAFQISREDARKIKFNNEQPTLSS	462
7	Pru du 6.0101	307159112	5.15	517	LANAYQISREQARQLKYNRQETIALS	542
8	Pru du 6	258588247	5.15	497	LANAYQISREQARQLKYNRQETIALS	522
9	Pru du 6.0201	307159114	5.32	464	LQNAFRISRQEARNLKYNRQESRLLS	489
10	Ber e 2	30313867	5.78	429	LANAYRLSQEEARRIKLNRDEAVLFQ	454
11	Ses i 7.0101	Q9AUD2	5.95	440	VMTAYQVSRDEARRLKYNREESRVFS	465
12	Sin a 2.0101	Q2TLW0	6.45	469	ITNAYQISLEEARKIKFNTLETTLTR	494
13	Pis v 2.0101	110349082	6.65	446	IKNSFDISREDARRLKESRSETTIFA	471
14	Gos h 3	P09802	6.82	474	VAASYQVSREDARRIKFNNKNTFFFT	499
15	Gos h 4	P09800	6.86	484	LANSFGISREEAMRLKHNRQEVSVFS	509
16	Cuc ma 4.0101	11SB_CUCMA	7.99	446	LSNMYRISREEAQRLKYGQQEMRVLS	471
17	Pis v 2.0201	110349084	8.64	437	IQNSFDISREDAWNLKESRSEMTIFA	462

18	Fag e 1	2317674	8.74	463	LANSYDISTKEAYKLKNGRQEVEVFR	488
19	Fag e 1	29839419	8.75	497	LANSYDISTKEAFRLKNGRQEVEVFR	522
20	Ses i 6.0101	Q9XHP0	9.24	225	LSEAFNVPQETIRRMQSEEEERGLIV	250
21	Car i 4.0101	158998780	9.56	243	LADAFNVDTETARRLQSENDHRGSIV	268
22	Jug n 4.0101	JUGN4_JUGNI	9.58	245	LADAFNVDTETARRLQSENDHRRSIV	270
23	Jug r 4.0101	Q2TPW5	9.58	242	LADAFNVDTETARRLQSENDHRRSIV	267
24	Cor a 9	18479082	9.60	249	LADAFNVDVDTARRLQSNQDKRRNIV	274
25	Ara h 4	5712199	9.63	495	VANSYGLPREQARQLKNNNPFKFFVP	520
26	Pis v 3.0101	133711973	9.68	275	LEAALKTPRDKLEKLFEKQDEGAIVK	300
27	Pis v 2.0101	110349082	9.71	241	LAQSFNIDTQLARRLQKEKRQRGIIV	266
28	Gly m 6.0301	P11828	9.72	446	IQQTFNLRRQQARQVKNNNPFSFLVP	471
29	Fag e 1	2317670	9.73	527	LANSYDISTKEAFRLKNGRQEVEVFL	552
30	Ana o 2	25991543	9.86	208	LAEAFQVDERLIKQLKSEDNRGGIVK	233
31	Pru du 6.0101	307159112	10.00	300	LAQALNVNEETARNLQGQNDNRNQII	325
32	Pru du 6	258588247	10.00	280	LAQALNVNEETARNLQGQNDNRNQII	305
33	Gly m 6.0501	Q7GC77	10.06	491	LSNSYNLGQSQVRQLKYQGNSGPLVN	516
34	Ses i 6.0101	Q9XHP0	10.11	427	ITNSYQISPNQAQALKMNRGSQSFLL	452
35	Gos h 4	P09800	10.23	252	LAQAFGIDTRLARKLQNERDNRGAIV	277
36	Der f 32.0101	AIO08849	10.25	252	LGNSFSINDEQAKQFLETRPSSDAVE	277
37	Cor a 11	19338630	10.27	208	LEAALKVRREQLEKVFGEQSKGSIVK	233
38	Zan_b_2.02	QYU76044	10.31	182	LADAFNVNPELIRRLQRPQMQRGIIV	207
39	Ara h 3	3703107	10.36	475	VANSYGLQREQARQLKNNNPFKFFVP	500
40	Ara h 3	O82580	10.36	472	VANSYGLQREQARQLKNNNPFKFFVP	497

Figure S1-Heat maps of Jug r 4 and Ara h 3 IgE epitopes



Supplementary Figure S1-Heat Map of IgE binding epitopes of Jug r 4 (panel A) and Ara h 3 (panel B) with sera from peanut and walnut allergic individuals. The y axis corresponds to the subject number in Table 1. The x-axis is the peptide number on the microarrays (15 mers offset by 5) for Jug r 4 (panel A) and Ara h 3 (panel B).