

Supplementary Table 2. Reactivity of IgE from patient sera to 2-D spots identified by MS/MS<sup>1</sup>.

Spot # <sup>2</sup>	Predominant protein <sup>2</sup>	Patient #1 Serum 1343 1:20			Patient #2 Serum 1175 1:50			Patient #3 Serum 1310 1:25			Patient #4 Serum 1174 1:20			Patient #5 Serum 1363 1:25			Patient #6 Serum 1592 1:25			Patient #7 Serum 1305 1:20			Patient #8 Serum 1183 1:30			Patient #9 Serum 691 1:20			Patient #10 Serum 1648 1:20			Patient #12 Serum 1345 1:20		
		Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a	Cont	35b	45a			
60	omega-5 gliadin	+	less		+	+	less	+	less	+	less		+	less	+	less	+	less		+	less													
63	omega-5 gliadin	+			+	+		+	+	+			+		+	+	+		+		+													
64	omega-5 gliadin																																	
69	omega-5 gliadin	+			+	+		+	+	+			+		+		+		+		+													
71	omega-5 gliadin	+	less		+	+	less	+	less	+	less		+	+	+	+	less	+	less	+	less		+											
73	omega-5 gliadin	+			+	+		+	less	+	less		+	+	+	+	+		+	+	+													
74	omega-5 gliadin	+	less		+	+	less	+	less	+	less		+	less	+	less	+	less	+	less		+												
92	B-amylase Bu-3/omega-5 gliadin	+	+/-		+	+	+/-	+	+	+	less		+	+/-	+	less	+	+/-	+	+														
107	omega-1,2 gliadin cys-type																																	
113	omega-1,2 gliadin cys-type																																	
115	omega-1,2 gliadin cys-type																																	
116	omega-1,2 gliadin cys-type																																	
135	omega-1,2 gliadin																																	
391	omega-1,2 gliadin																																	
138	omega-1,2 gliadin																																	
476	omega-1,2 gliadin																																	
477	omega-1,2 gliadin																																	
342	alpha gliadin Bu-1																																	
330	alpha gliadin Bu-2		+/-	+/-	+	+	+/-	+/-	+	+	+		+	+	+	+	+/-	+/-	+/-	+	+	+	+	+	+	+	+	+	+	+				
338	alpha gliadin Bu-2																																	
468	alpha gliadin Bu-3																																	
467	alpha gliadin Bu-4																																	
183	alpha gliadin Bu-5																																	
344	alpha gliadin Bu-5																																	
550	alpha gliadin Bu-10																																	
327	alpha gliadin Bu-11																																	
328	alpha gliadin Bu-12		+/-	+/-	+																													
329	alpha gliadin Bu-12																																	
387	alpha gliadin Bu-12																																	
525	alpha gliadin Bu-12																																	
524	alpha gliadin Bu-12																																	
190	alpha gliadin Bu-14																																	
331	alpha gliadin Bu-14																																	
389	alpha gliadin Bu-14																																	
551	alpha gliadin Bu-14																																	
341	alpha gliadin Bu-23		+/-	+/-	+																													
420	alpha gliadin Bu-27																																	
177	alpha gliadin BQ806209																																	
124	alpha gliadin BQ807130																																	
421	alpha gliadin																																	
325	gamma gliadin Bu-1 or Bu-8																																	
326	gamma gliadin Bu-1																																	
160	gamma gliadin Bu-2																																	
166	gamma gliadin Bu-4																																	
169	gamma gliadin Bu-4																																	
134	gamma gliadin Bu-5																																	
320	gamma gliadin Bu-5																																	
323	gamma gliadin Bu-5																																	
324	gamma gliadin Bu-5																																	
335	gamma gliadin Bu-6																																	
346	gamma gliadin Bu-6																																	
339	gamma gliadin Bu-7																																	
163	gamma gliadin Bu-11																																	
527	gamma gliadin Bu-11																																	
172	gamma gliadin Bu-10 or Bu-3, alpha gliadin Bu-1 or Bu-3, alpha gliadin Bu-9																																	
334	alpha gliadin Bu-9 alpha gliadin Bu-10 or Bu-3, alpha gliadin Bu-1 or Bu-3, alpha gliadin Bu-9 alpha gliadin Bu-BQ838853/gamma gliadin Bu-7																																	
314	LMW-GS Bu-2/13 s-type	+/-	+	+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-				
315	LMW-GS Bu-2/13 s-type	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-				
317	LMW-GS Bu-2/13 s-type	+/-	+/-		+/-	+	+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-					
322	LMW-GS Bu-2/13 s-type				+/-	+/-	+/-	+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-					
120	LMW-GS Bu-3 s-type	+/-	+		+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-					
131	LMW-GS Bu-3 s-type	+/-	+		+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-					
132	LMW-GS Bu-3 s-type	+/-	+		+/-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+/-	+/-	+/-					
161	LMW-GS Bu-3 s-type	+/-																																

420	alpha gliadin Bu-27	+/- + +/-	+/- +	+/- +/-	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +		
310	LMW-GS Bu-3 s-type	+/- + +/-	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +		
316	LMW-GS Bu-3 s-type	+/- +/-	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +		
119	LMW-GS Bu-3 s-type	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +		
119a	LMW-GS Bu-3 s-type	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +		
167	LMW-GS Bu-1 m-type			+/- +/-	+/-	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +		
170	LMW-GS Bu-1 m-type																	
173	LMW-GS Bu-6 m-type																	
144	LMW-GS Bu-7 m-type	+/- + +	+/- + +	+/- ++	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	
145	LMW-GS Bu-7 m-type	+/- + +/ -	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	
472	LMW-GS Bu-7 m-type																	
343	LMW-GS Bu-8 m-type																	
153	LMW-GS Bu-18 m-type	+/- +	+/- +	+/- ++	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	
155	LMW-GS Bu-18 m-type	+/- + +/ -	+/- + +	+/- ++	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	
319	LMW-GS TC11-277270 m-type	+/- + +/ -	+/- + +	+/- ++	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	+/- +	
125	LMW-GS AAB48469 i-type					+ + +/-												
140	LMW-GS Bu-4 i-type					+ +												
141a	LMW-GS Bu-4 i-type					+ +												
141	LMW-GS Bu-4 i-type	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	+/- +/ -	
12	HMW-GS Ax2*																+/- +/ -	
17	HMW-GS Ax2*																+/- +/ -	
20	HMW-GS Bx7																+/- +/ -	
21	HMW-GS Bx7																+/- +/ -	
25	HMW-GS Bx7																+/- +/ -	
26	HMW-GS Bx7																+/- +/ -	
27	HMW-GS Bx7																+/- +/ -	
33	HMW-GS Bx7																+/- +/ -	
3	HMW-GS Dx5																+/- +/ -	
5	HMW-GS Dx5																+/- +/ -	
40	HMW-GS By9																+/- +/ -	
349	HMW-GS By9																+/- +/ -	
350	HMW-GS By9																+/- +/ -	
351	HMW-GS By9																+/- +/ -	
358	HMW-GS By9																+/- +/ -	
360	HMW-GS By9																+/- +/ -	
42	HMW-GS Dy10																+/- +/ -	
48	HMW-GS Dy10																+/- +/ -	
51	HMW-GS Dy10																+/- +/ -	
333	HMW-GS Dy10																+/- +/ -	
424	HMW-GS Dy10																+/- +/ -	
99	globulin-2		+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-		
143	tritici					+/- +/ -												
249	tritici					+/- +/ -												
423	tritici					+/- +/ -												
207	farinin Bu-2					+/-												
336	farinin Bu-3					+/-												
223	purinrin Bu-2																	
543	purinrin Bu-1																	
130	omega secalin-like																	
178	glyoxalase I																	
189	thiamine biosynthetic enzyme																	

<sup>1</sup> + serum reacted with protein; +/- serum showed faint reaction with protein, blank denotes that sera did not react with protein; less indicates that the amount of reactivity in the transgenic was notably less than in the non-transgenic control. Proteins that reacted with each serum (+) in the control sample are shaded. Serum from patient #11 reacted with non-gluten proteins identified in Figure 1.

<sup>2</sup> spot numbers and identifications of predominant proteins are from Dupont et al.<sup>19</sup>. In spots where multiple proteins were identified by similar numbers of peptides, more than one identification may be listed.