

Additional file 1. Composition of the canonical form and the allelic variants of the four α -gliadin T-cell stimulatory epitopes used to optimize each TaqMan probe's specificity.

Epitopes	Variants	Composition ¹	GeneBank accession numbers ²			
DQ2.5-glia- α 1	Canonical epitope	NA AA	CCA T{T/A}T CC{G/A} CAA CTA CCA TAT P{F/Y}PQPQLPY	KX173976, KX174272, KX174055		
	Mutated epitopes	NA AA	CCA TTT CCG --- CCA CAA CTA CCA TAT PFP-PQLPY	KX173988		
		NA AA	CCA TTT TCG CAG CCG CAA CTA CCA TAT PFSQPQLPY	KX173847		
		NA AA	CCA TTT CTG CAG CCG CAA CTA CCA TAT PFLQPQLPY	KX174174		
		NA AA	CCA TTT CCG CAG CCG CAA CTA TCA TAT PFPQPQLSY	KX174120		
		NA AA	CCA TAT CCG CGG CCG CAA CTA CCA TAT PYPRPQLPY	KX174253		
		NA AA	CCA TAT CCG CAG CCG CAT CTA CCA TAT PYPQHLPY	KX174252		
		DQ2.5-glia- α 2	Canonical epitope	NA AA	CC{A/G} CAG CCG CAA CTA CCA TAT CCG CAG PQPQLPYPQ	KX173976, KX174272, KX174055
			Mutated epitopes	NA AA	CCG --- CCA CAA CTA CCA TAT CCG CAG P-PQLPYPQ	KX173988
NA AA	CCG CAG CCG CAA CTA CCA TAT TCA CAG PQPQLPYSQ			KX174127		
NA AA	CCG CGG CCG CAA CTA CCA TAT CCG CAG PRPQLPYPQ			KX174253		
NA AA	CCG CAG CCG CAT CTA CCA TAT CCG CAG PQPHLPYPQ			KX174252		
DQ2.5-glia- α 3	Canonical epitope			NA AA	TTT CGA CCA CAA CAA CCA TAT CCA CA{A/G} FRPQQPYPQ	KX174127
	Mutated epitopes			NA AA	TTT CA CCA CAA CAA CCA TAT CCA CAA FPPQQPYPQ	KX173988
			NA AA	TTT CGA CAA CAA CAA CCA TAT CCA CAA FRQQQPYPQ	KX173847	
			NA AA	TTT CGA CCA CAA CAA TCA TAT CCA CAA FRPQQSYQP	KX174255	
		NA AA	TTT CGA CCA CAA AAA CCA TAT CCA CAA FRPQKPYPQ	KX173906		
		NA AA	TTT CAA CCA CAA CAA CCA TAT CCA CAA FQPQQPYPQ	KX174012		
		DQ8-glia- α 1	Canonical epitope	NA AA	CAG GGC TCC TTC CAG CCA TCT CAG CAA QGSFQPSQQ	KX174252
			Mutated epitopes	NA AA	CAG GGC TCC TTC CGG CCA TCT CAG CAA QGSFRPSQQ	KX173906
				NA AA	CAG GGC TCC TTC CAG TCA TCT CAG CAA QGSFQSSQQ	KX173989
NA AA	CAG GGC TTC TTC CAG CCA TCT CAG CAA QGFQPSQQ			KX173976		
NA AA	CAG GTC TCC TTC CAG CCA TCT CAG CTA QVSFQPSQL			KX173988		

¹ : NA : Nucleic acid composition ; AA : Amino acid composition

² : α -gliadin sequences previously cloned in Dubois et al. 2016