

Table S2. Manual annotation of the regions from the homeologous A and B genome of the durum wheat cv. Svevo harboring the γ -gliadin genes. The ancestral genes are highlighted in orange.

A genome			B genome			Rice
Annotation	Start	End	Annotation	Start	End	
E3 ubiquitin-protein ligase	4110013	4115442	E3 ubiquitin-protein ligase	4058971	4066512	LOC_Os05g01230
Mei2-like protein	4118433	4125560	Mei2-like protein	4069522	4076464	LOC_Os05g01240
Charged multivesicular body protein	4323044	4325693	Charged multivesicular body protein	4189942	4192587	LOC_Os05g01250
Putative LRR receptor-like serine/threonine-protein kinase	4327378	4330809	Putative LRR receptor-like serine/threonine-protein kinase	4193737	4197062	
F-box/LRR-repeat protein 14-like	4333931	4335661	B3 domain-containing protein family	4198192	4198479	
Putative LRR receptor-like serine/threonine-protein kinase	4374088	4375420	F-box/LRR-repeat protein	4215102	4218006	
Putative LRR receptor-like serine/threonine-protein kinase	4379443	4381974	Wall-associated receptor kinase	4234355	4252395	
Protein SUPPRESSOR OF GENE SILENCING 3	4392564	4396390	Putative LRR receptor-like protein kinase family protein	4262215	4264249	
Uncharacterized protein	4435606	4436067	Putative LRR receptor-like protein kinase family protein	4264292	4265965	
Putative LRR receptor-like serine/threonine-protein kinase	4441777	4444301	Putative LRR receptor-like protein kinase family protein	4274743	4278215	
Putative LRR receptor-like serine/threonine-protein kinase	4477765	4479939	Putative LRR receptor-like protein kinase family protein	4299647	4301050	
Ankyrin-1 like	4494815	4498583				
F-box/LRR-repeat protein 14-like	4508576	4510033				
Putative LRR receptor-like serine/threonine-protein kinase	4526143	4529573				
Putative LRR receptor-like serine/threonine-protein kinase	4538905	4541830				
Carboxyl-terminal peptidase, putative (DUF239)	4545278	4548303				
Putative LRR receptor-like serine/threonine-protein kinase	4572368	4575403				

A genome			B genome			Rice
Putative LRR receptor-like serine/threonine-protein kinase	4593717	4597257				
Putative LRR receptor-like serine/threonine-protein kinase	4604918	4608389				
δ -gliadin (<i>Gli-δ1a*</i>)	4613285	4614202	γ -gliadin (<i>Gli-γ1b</i>)	4313476	4314384	
δ -gliadin (<i>Gli-δ2a*</i>)	4631881	4632772	δ -gliadin (<i>Gli-δ1b*</i>)	4341737	4342690	
γ -gliadin (<i>Gli-γ1a</i>)	4687840	4688874	γ -gliadin (<i>Gli-γ2b</i>)	4355195	4356088	
γ -gliadin (<i>Gli-γ2a*</i>)	4744130	4744969	γ -gliadin (<i>Gli-γ3b</i>)	4481997	4482992	
γ -gliadin (<i>Gli-γ3a</i>)	4871918	4872775	γ -gliadin (<i>Gli-γ4b*</i>)	4514026	4515024	
γ -gliadin (<i>Gli-γ4a</i>)	4879635	4880492	γ -gliadin (<i>Gli-γ5b</i>)	4518944	4519819	
Cyclophilin-like protein	4883974	4886532	Cyclophilin-like protein	4524929	4527581	LOC_Os05g01270
Avenin-like (<i>Av-1a*</i>)	4887801	4888553	Avenin-like (<i>Av-1b*</i>)	4528580	4529044	
Avenin-like (<i>Av-2a</i>)	4891405	4892007	Avenin-like (<i>Av-2b</i>)	4543310	4543921	
Protein of unknown function (DUF3339)	4892935	4893153	Protein of unknown function (DUF3339)	4545088	4545306	LOC_Os05g01280