

Increase in grain protein and gluten contents of bread wheat by the introgression of a *T. timopheevii* segment into chromosome 2A

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Yield components of the substitution line S29 (821 2A) under field conditions in different geographical locations

Genotypes	SL (cm)	NT	Main spike				Total yield/plant		
			SL (cm)	SpN	GN	GW (g)	GN	GW (g)	TGW (g)
Omsk, Western Siberia									
S29	88.2	2.3	8.3	13.8	36.9	1.7	75.4	3.4	44.7
S29 (821 2A)	92.6	1.5	7.9	13.5	32.9	1.3	43.2	1.6	36.9
Ussuriysk, Far East									
S29	103.5	5.3	9.1	15.7	34.4	1.2	---	5.0	35.4*
S29 (821 2A)	103.9	5.8	8.1	15.5	36.0	1.3	---	5.5	35.3*
Barnaul, Western Siberia, Altaiskiy kray									
S29	87.9	2.5	5.8	10.7	20.4	0.78	36.6	1.4	37.8
S29 (821 2A)	93.9	3.6	5.5	10.7	19.6	0.75	35.1	1.3	37.6
Novosibirsk, Western Siberia									
S29	76.6	4.8	6.6	13.8	25.0	0.85	81.7	2.5	27.5
S29 (821 2A)	82.4	5.0	7.1	13.7	28.3	0.97	104.8	3.2	28.5

Abbreviations: SL-spike length; NT – number of tillers; SL – spike length; SpN – number of spikelets; GN – grain number; GW – grain weight; TGW - thousand grain weight * - Calculated TGW (main spike data)