

Table S2 Pairwise alignments of wheat Glyceraldehyde 3-phosphate dehydrogenase

Protein	Nucleotide identity	<i>TaGapdh1</i>	<i>TaGapdh2</i>	<i>TaGapdh3</i>	<i>TaGapdh4</i>	<i>TaGapdh5</i>	<i>TaGapdh6</i>	<i>TaGapdh7</i>	<i>TaGapdh8</i>	<i>TaGapdh9</i>	<i>TaGapdh10</i>	<i>TaGapdh11</i>	<i>TaGapdh12</i>	<i>TaGapdh13</i>	<i>TaGapn1</i>	<i>TaGapn2</i>	<i>TaGapn3</i>
TaGAPDH1			98.67	53.94	54.84	47.04	53.66	49.37	55.23	47.12	57.21	47.16	57.11	48.57	35.34	36.53	35.15
TaGAPDH2		98.28		53.94	55.03	49.20	54.22	49.03	55.53	48.16	57.51	47.1	57.41	48.70	35.85	37.91	37.07
TaGAPDH3		36.99	36.99		98.32	65.58	96.94	65.48	96.94	66.37	80.28	66.96	80.87	66.57	38.88	37.58	37.20
TaGAPDH4		63.33	64.43	97.99		66.47	98.52	66.37	98.62	67.46	81.36	67.85	81.95	67.66	38.88	38.66	37.02
TaGAPDH5		72.90	72.32	65.45	70.74		64.43	92.31	66.07	82.39	67.46	83.29	67.56	80.38	36.82	35.67	34.94
TaGAPDH6		65.28	67.91	97.20	93.85	74.1		64.24	99.31	65.51	81.85	65.86	82.54	65.89	36.48	39.37	37.08
TaGAPDH7		72.90	73.19	60.98	71.36	94.71	74.76		66.27	79.67	67.06	80.21	67.46	79.69	33.88	35.23	34.42
TaGAPDH8		63.08	64.18	97.59	99.7	70.02	94.13	70.63		67.36	81.56	67.75	82.25	67.56	37.07	38.06	36.73
TaGAPDH9		71.95	73.17	61.38	72.97	90.63	76.41	91.28	72.73		66.27	96.96	66.57	96.81	35.29	35.54	34.41
TaGAPDH10		61.08	62.11	76.42	91.22	69.28	86.36	69.86	91.50	69.98		66.86	97.63	66.57	35.00	36.67	35.15
TaGAPDH11		72.02	73.97	61.13	72.86	91.83	75.79	91.55	72.62	97.79	70.59		66.96	96.72	35.86	36.19	36.43
TaGAPDH12		64.06	65.17	76.83	94.66	72.18	89.39	72.82	94.96	72.97	95.18	73.59		66.67	35.19	35.81	33.57
TaGAPDH13		72.44	73.17	60.57	73.22	91.11	76.41	91.77	72.97	98.52	70.45	96.81	73.46		35.13	34.38	33.99
TaGAPN1		18.15	18.15	15.73	15.79	13.25	16.20	15.94	16.86	18.09	18.37	18.82	16.04	21.08		98.26	97.65
TaGAPN2		13.24	13.24	16.67	16.67	18.08	16.67	13.53	16.67	18.97	19.90	18.28	17.04	17.53	99.42		97.42
TaGAPN3		20.83	20.83	16.23	16.23	17.55	16.23	15.64	16.23	17.41	12.60	18.94	18.41	14.79	97.31	99.32	

The number above the dash line are the identity between CDS sequences, and the number below the dash line represent the identity between amino acid sequences.