

Table S1 HMMsearch hits of wheat Glyceraldehyde 3-phosphate dehydrogenase

Hits	Gp_dh_N		Gp_dh_C		Adledh	
	from	to	from	to	from	to
Traes_1AS_24D49363B.1	42	151	1	158	—	—
Traes_1BS_E12ED9754.1	128	151	1	52	—	—
Traes_2AL_783CF383F.1	2	151	1	158	—	—
Traes_2BL_5D64E8C87.1	2	151	1	158	—	—
Traes_2DL_04AA47AA7.1	22	151	—	—	—	—
Traes_2DL_80DD45E69.1	2	19	—	—	—	—
Traes_2DS_8C0F16AC1.1	76	109	—	—	—	—
Traes_2DL_93867FC79.1	—	—	19	158	—	—
Traes_4BL_A9FAA75A9.1	2	151	—	—	—	—
Traes_4BL_F32809B15.1	—	—	109	158	—	—
Traes_4BS_BCAC4E57B.18	—	—	1	61	—	—
Traes_4DL_06EF3E3A2.1	33	151	1	133	—	—
Traes_4DL_5612CF456.2	2	151	1	28	—	—
Traes_4DS_19608B1FF.1	2	123	—	—	—	—
Traes_4DL_F8980B1D2.1	—	—	132	158	—	—
Traes_4DS_0426CF8E9.1	—	—	123	158	—	—
Traes_4DS_2F98108D7.1	93	151	—	—	—	—
Traes_4DS_5E720DFF7.1	40	151	1	158	—	—
G Traes_4DS_A3B293612.1	40	151	1	91	—	—
A Traes_4DS_D9999817B.1	2	146	—	—	—	—
P Traes_4DS_DD602A86C.1	—	—	106	158	—	—
D Traes_4DS_E5AD7818A.1	—	—	19	158	—	—
H Traes_4DS_EC8115DE9.1	—	—	90	158	—	—
Traes_5AL_C309589A2.1	30	68	—	—	—	—
Traes_5BS_3E6223216.1	2	93	—	—	—	—
Traes_6AL_174253A75.2	6	151	1	158	—	—
Traes_6AL_174253A751.1	1	151	1	158	—	—
Traes_6AS_D1274A812.1	2	151	1	158	—	—
Traes_6BL_B95E66E93.1	1	151	1	158	—	—
Traes_6BS_970784007.1	2	151	1	158	—	—
Traes_6DL_B3AD4834A.1	1	151	1	158	—	—
Traes_6DS_5F1004AAF.2	39	151	1	158	—	—
Traes_7AL_226028C17.1	2	151	1	158	—	—
Traes_7AL_D93FC054C.1	1	151	1	158	—	—
Traes_7BL_409D8E4DD.1	76	151	2	62	—	—
Traes_7BL_A38105EC0.1	2	151	1	158	—	—
Traes_7BL_D5E233F60.1	128	151	1	158	—	—

	Traes_7BL_E09E4240E.1	128	151	1	59	–	–
	Traes_7DL_961822B36.2	1	151	1	158	–	–
	Traes_7DL_ADFCB28B3.1	2	151	1	158	–	–
G	Traes_2DS_22500FA4F.1	–	–	–	–	1	496
A	Traes_2BS_8684E0E15.1	–	–	–	–	1	496
p	Traes_2AS_A4A5BE528.1	–	–	–	–	59	496
N							

The hits that are absence of complete Gp_dh_N and Gp_dh_C were colored in yellow and excluded.