

Additional file 1. The presence of the *HvMyc2-BA* allele in barley Bowman NILs (1-2), parents of the mapping population used (3-4), recombinant DH lines of this population (5-96), accessions and cultivars from IPK Genbank (97-98) and ICG collection GenAgro (99-107).

No	Genotype	Grain color	The presence of the <i>HvMyc2-BA</i> allele determined by the use of allele specific DNA-marker
1.	Bowman, BW (NGB22812)	white	+
2.	Blue aleurone, BA (NGB20651)	blue	-
3.	OWB_DOM	black	+
4.	OWB_REC	white	-
5.	OWB_01	black	+
6.	OWB_02	white	-
7.	OWB_03	white	+
8.	OWB_04	black	+
9.	OWB_05	black	+
10.	OWB_06	white	-
11.	OWB_07	black	+
12.	OWB_08	blue	+
13.	OWB_09	white	-
14.	OWB_10	black	+
15.	OWB_11	brown	+
16.	OWB_13	white	-
17.	OWB_14	white	-
18.	OWB_15	brown	-
19.	OWB_16	black	-
20.	OWB_17	brown	-
21.	OWB_18	black	+
22.	OWB_19	black	-
23.	OWB_20	black	+
24.	OWB_21	black	+
25.	OWB_22	white	-
26.	OWB_23	white	-
27.	OWB_24	brown	-
28.	OWB_26	white	-
29.	OWB_27	black	+
30.	OWB_28	white	+
31.	OWB_29	blue	+
32.	OWB_30	brown	+
33.	OWB_31	black	+
34.	OWB_32	brown	-
35.	OWB_33	white	-
36.	OWB_34	white	-
37.	OWB_35	black	-

38.	OWB_36	black	-
39.	OWB_37	black	-
40.	OWB_38	black	+
41.	OWB_39	brown	+
42.	OWB_40	brown	-
43.	OWB_41	black	+
44.	OWB_42	white	-
45.	OWB_43	white	-
46.	OWB_44	blue	+
47.	OWB_45	white	-
48.	OWB_46	white	-
49.	OWB_47	brown	-
50.	OWB_48	blue	+
51.	OWB_49	blue	+
52.	OWB_50	black	-
53.	OWB_51	brown	-
54.	OWB_52	white	-
55.	OWB_53	brown	+
56.	OWB_54	blue	+
57.	OWB_55	brown	+
58.	OWB_56	blue	+
59.	OWB_57	brown	-
60.	OWB_58	blue	+
61.	OWB_59	brown	+
62.	OWB_60	brown	-
63.	OWB_61	brown	-
64.	OWB_62	brown	+
65.	OWB_63	black	-
66.	OWB_64	black	-
67.	OWB_65	black	-
68.	OWB_66	black	+
69.	OWB_67	black	-
70.	OWB_68	black	+
71.	OWB_69	black	-
72.	OWB_70	white	-
73.	OWB_71	brown	-
74.	OWB_72	blue	+
75.	OWB_73	black	-
76.	OWB_74	brown	-
77.	OWB_75	black	+
78.	OWB_76	white	-
79.	OWB_77	brown	+
80.	OWB_78	brown	-
81.	OWB_79	white	-
82.	OWB_80	brown	+
83.	OWB_81	black	+

84.	OWB_82	white	-
85.	OWB_83	brown	-
86.	OWB_84	white	-
87.	OWB_85	blue	+
88.	OWB_86	brown	+
89.	OWB_87	brown	-
90.	OWB_88	brown	-
91.	OWB_89	brown	+
92.	OWB_90	brown	+
93.	OWB_91	purple	+
94.	OWB_92	brown	+
95.	OWB_93	blue	+
96.	OWB_94	brown	-
97.	HOR 6866	blue	+
98.	HOR17020	blue	+
99.	Biom	white	-
100.	Tanay	white	-
101.	Vorsinsky	white	-
102.	Zolotnik	white	-
103.	Omskiy-1	white	-
104.	Omskiy-2	white	-
105.	Acha	white	-
106.	Signal	white	-
107.	Sobolek	white	+

