

Table S1. Phenotypes measured and calculated in this study and geographic origin of the samples. Phenotypes include early plant height, early growth rate, and inter-node length, and node count.

Accession	Country	Early Plant Height (mm)	Early Growth Rate (mm/day)	Inter-node length (mm)	Node Count
PI101404A	China	325.83	21.07	58.71	5
PI101404B	China	46.95	1.59	87.42	3
PI163453	China	384.6	26.68	69.05	6
PI407288	China	323.77	21.25	94.9	5
PI407296	China	458.9	26.49	47.28	5
PI407298	China	304.94	19.19	71.34	3
PI407302	China	261	17.64	93.06	4
PI407303	China	363.27	25.21	56.18	6
PI407304	China	290.86	18.86	54.77	5
PI407307	China	326	23.33	29.06	5
PI458537A	China	183.52	12.21	44.01	5
PI458540D	China	291.02	22.16	50.7	5
PI464866A	China	168.31	10.27	80.73	5
PI464889B	China	99.84	6.41	10.44	4
PI464889C	China	209.03	12.06	77.4	3
PI464890A	China	326.77	22.34	44.94	5
PI464891B	China	300.21	18.27	21.53	5
PI464925C	China	250.03	15.66	6.01	4
PI464926	China	251.98	17.59	34.21	5
PI464927A	China	164.56	10.35	20.9	6
PI464927B	China	202.73	13.99	37.4	5
PI464928	China	203.03	12.87	31.88	5
PI468396B	China	62.7	3.91	29.92	3
PI468397A	China	125.45	8.33	50.4	4

PI468398B	China	18.04	1.04	62.51	3
PI468399B	China	100.48	6.72	64.33	5
PI483466	China	205.39	13.63	40.78	5
PI483467	China	383.69	24.39	9.9	5
PI483468A	China	281.89	18.17	22.21	5
PI522179	China	116.06	7.07	42.9	4
PI522180	China	90.83	4.97	51.4	4
PI522182A	China	212.79	15.99	42.19	5
PI522182B	China	487.47	31.88	37.03	5
PI532450	China	344.47	22.78	48	5
PI532453A	China	257.09	17.84	67.53	5
PI549037	China	282.56	20.04	86.52	5
PI549047	China	515.87	32.14	58.39	5
PI549048	China	116.63	6.51	75.46	4
PI597458B	China	516.23	34.49	11.66	6
PI597461B	China	477.87	30.72	87.11	6
PI464936B	China	294.19	20.43	53.49	6
PI464937A	China	170	10.27	43.51	5
PI464938	China	174.55	11.9	43.44	5
PI468918	China	209.73	12.93	61.27	5
PI479746B	China	387	26.03	62.71	5
PI479749	China	34.8	1.61	28.52	3
PI479750	China	322.9	22.78	33.66	4
PI479751	China	202.8	13.22	58.2	4
PI366121	Japan	124.25	7.78	33.64	4
PI366122	Japan	258.51	16.91	44.87	4
PI366123	Japan	251.4	18.24	88.54	4
PI366124	Japan	349.77	22.27	89.77	5

PI378684A	Japan	358.2	22.8	66.41	5
PI378690	Japan	380.3	27.36	34.35	5
PI378691	Japan	76.95	5.51	36.19	2
PI378697A	Japan	339.55	19.51	26.92	5
PI378698	Japan	272.48	17.69	103.17	5
PI378699A	Japan	382.6	25.56	49.54	6
PI378701A	Japan	490.27	25.58	56.51	6
PI406684	Japan	292.64	15.84	57.13	4
PI407030	Japan	223.98	14.64	68.89	5
PI407034	Japan	217.86	11.93	39.73	4
PI407037	Japan	344.97	23.54	58.55	4
PI407038	Japan	158.6	11.25	90.55	6
PI407044	Japan	295.88	18.64	85.25	5
PI407050	Japan	337.2	18.42	49.39	4
PI407052	Japan	214.63	14.84	70.59	4
PI407053	Japan	186.25	13.36	101.32	3
PI407077	Japan	135.85	9.11	59.25	4
PI407083	Japan	96.69	7.09	70.66	4
PI407089	Japan	281.52	17.14	81.08	5
PI407097	Japan	232.55	15.83	37.35	4
PI407120	Japan	310.52	20.82	91.14	4
PI407124	Japan	135.79	9.28	91.4	4
PI407144	Japan	126.57	6.56	47.29	3
PI407157	Japan	239.85	15.94	24.77	5
PI407286	Japan	247.9	16.98	55.99	4
PI486220	Japan	111.82	6.58	8.91	3
PI487428	Japan	181.3	9.4	21.43	4
PI487430	Japan	260.13	16.37	39.41	4

PI487431	Japan	131.39	7.6	74.15	3
PI504287A	Japan	452.35	25.29	27.05	4
PI507582	Japan	303.14	16.69	64.51	3
PI507609	Japan	356.3	24.15	49.45	2
PI507615	Japan	453.31	30.15	35.22	6
PI507619B	Japan	257.77	18.67	52.35	4
PI507632	Japan	454.69	29.71	55.19	6
PI507638	Japan	304.63	21.43	40.33	5
PI507644	Japan	247.16	16.77	95.13	4
PI507656	Japan	266.5	18.79	65.11	5
PI507667	Japan	239.22	14.17	67.48	4
PI508066	Japan	194.8	10.42	46.25	5
PI508067	Japan	275.28	18.58	78.06	5
PI508069	Japan	286	18.18	36.75	5
PI378695A	Japan	162.6	11.92	8.39	6
PI378696A	Japan	243.11	14.52	16.75	5
PI339732	South Korea	310.63	21.54	63.24	6
PI339871A	South Korea	40.8	2.41	91.1	4
PI407167	South Korea	89.11	5.56	7.75	4
PI407174	South Korea	134.74	8.57	61.29	4
PI407183	South Korea	390.3	24.67	58.99	5
PI407184	South Korea	154.18	9.49	38.96	3
PI407190	South Korea	127.75	7.99	69.31	5
PI407195	South Korea	511.27	30.41	53.15	5
PI407198	South Korea	227.34	14.93	70.08	5
PI407200	South Korea	27.73	0.84	71.44	3
PI407201	South Korea	222.97	13.88	68.55	4
PI407202	South Korea	351.18	26.75	77.72	5

PI407209	South Korea	122.03	7.75	89.06	4
PI407217	South Korea	38.53	2.11	31.38	3
PI407220	South Korea	41.17	2.08	69.23	2
PI407221	South Korea	66.7	3.52	50.15	4
PI407229	South Korea	36.98	1.03	69.01	3
PI407235	South Korea	87.05	5.05	45.03	3
PI407240	South Korea	79.21	5.06	38.43	4
PI407246	South Korea	121.92	6.39	77.38	3
PI407248	South Korea	37.85	2.39	46.07	3
PI407249	South Korea	110.15	6.61	71.47	5
PI407254	South Korea	23.18	0.59	87.69	3
PI407262	South Korea	36.7	2.09	65.28	4
PI407270	South Korea	155.03	10.38	52.92	4
PI407271	South Korea	101.68	5.63	87.96	4
PI407275	South Korea	117.03	6.97	36.08	4
PI407278	South Korea	232.25	16.7	43.83	5
PI407308	South Korea	349.97	22.31	49.66	5
PI407315	South Korea	149.75	8.92	42.37	5
PI407318A	South Korea	148.57	10.39	75.4	4
PI407322	South Korea	27.11	1.36	55.38	2
PI424008A	South Korea	293	19.17	53.3	5
PI424014	South Korea	221.97	16.01	61.79	2
PI424025B	South Korea	121	5.96	65.28	3
PI424032	South Korea	220.74	15.8	82.67	4
PI424059B	South Korea	279.22	18.31	70.3	5
PI424063	South Korea	152.62	9.87	75.55	4
PI424064	South Korea	280.22	17.71	178.15	6
PI424079	South Korea	322.57	22.27	113.68	5

PI424082	South Korea	108.2	7.12	113.09	4
PI424088	South Korea	321.32	21.46	52.56	4
PI424093	South Korea	157.63	10.79	65.03	4
PI424096	South Korea	71.42	3.05	49.45	3
PI424102A	South Korea	26.72	0.54	33.55	3
PI424117	South Korea	96.23	5.47	56.38	4
PI424121	South Korea	36.3	1.38	76.74	4
PI562531	South Korea	72.58	4.49	48.62	4
PI562544	South Korea	16.78	1.17	27.1	2
PI562550	South Korea	217.17	15.23	32.98	6
PI562551	South Korea	148.83	9.76	76.06	4
PI562557	South Korea	420.6	27.34	79.6	6
PI562558	South Korea	478.77	31.06	65.58	5
PI562568	South Korea	501.7	35.09	68.56	6
PI407279	South Korea	37.56	1.74	103.32	3
PI407281	South Korea	134.33	8.02	72.09	4
PI342621C	Russia	197.15	12.88	18.65	4
PI423990A	Russia	442.1	27.47	77.04	6
PI423993	Russia	120.55	6.93	97.84	3
PI423995	Russia	308.85	21.14	95.09	6
PI423996	Russia	233.1	14.17	61.29	4
PI423997	Russia	201.13	13.03	71.73	5
PI423999B	Russia	244.27	16.07	74.39	5
PI424000	Russia	350.55	23.97	50.65	6
PI424001	Russia	229.7	15.61	28.29	4
PI424002	Russia	224.93	14.46	59.81	3
PI507722	Russia	253.27	17.44	63.74	5
PI507730	Russia	489.2	31.48	36.16	5

PI507735	Russia	377	27.61	37.14	5
PI507757	Russia	285.37	16.19	91.48	4
PI507805	Russia	157.6	11.3	29.02	4
PI507847	Russia	323.43	22.13	28.39	5
PI522193	Russia	364.55	23.59	71.66	4
PI522196A	Russia	303.1	20.38	32.88	4
PI522198A	Russia	186.75	10.55	58.14	5
PI522200A	Russia	324.33	20.92	56.3	4
PI522211B	Russia	306.2	18.57	27.62	4
PI522212B	Russia	276.49	20.01	33.96	5
PI522217	Russia	303.95	19.5	55.88	3
PI522223	Russia	247.05	16.6	53.66	4
PI522226	Russia	197.57	13.31	84.3	4
PI522227	Russia	341	22.59	65.75	4
PI522229	Russia	271.65	18.27	28.84	3
PI522230A	Russia	292.77	18.99	79.61	5
PI522234	Russia	218.53	13.41	59.42	6
PI578336	Russia	179.5	10.43	64.63	4
PI578338A	Russia	112.13	6.21	33.89	3
PI578345	Russia	65.28	NA	49.29	4
PI326581	Russia	241.95	16.55	73.04	5
PI507723B	Russia	396.73	25.48	48.85	5
PI507725B	Russia	358.67	23.99	43.1	5
PI507727	Russia	275.8	18.78	58.27	5
PI507729	Russia	412.07	27.96	51.48	4
PI507731	Russia	487.9	33.45	78.02	6
PI507734	Russia	276.9	19.53	11.62	5
PI507736	Russia	169.46	11.5	33.28	4

PI507739B	Russia	198.64	13.57	74.99	4
PI507740	Russia	130.75	7.95	61.13	5
PI507742	Russia	273.87	18.81	62.33	5
PI507749	Russia	252.8	15.25	60.54	5
PI507752	Russia	496.33	32.93	60.23	5
PI507759	Russia	204.87	13.59	91.78	4
PI507760	Russia	427.05	25.55	64.75	5
PI507764	Russia	223.97	14.68	61.98	4
PI507774	Russia	432.57	28.39	36.64	6
PI507776	Russia	619.93	42.17	11.27	6
PI507777	Russia	160.72	10.54	46.45	4
PI507780	Russia	156.36	9.85	33.44	4
PI507782	Russia	381.17	23.34	27.73	4
PI507784	Russia	211.67	14.61	35.78	4
PI507787	Russia	326.4	19.43	10.49	5
PI507794	Russia	405	25.45	22.03	6
PI507798	Russia	199.62	12.63	12.62	4
PI507799	Russia	348.2	22.78	36.58	5
PI507803	Russia	179.33	11.47	21.6	5
PI507806A	Russia	322.03	18.57	12.33	5
PI507808	Russia	200.62	13.57	19.06	4
PI507814	Russia	311.55	19.99	20.58	5
PI507815	Russia	94.14	5.31	12.84	3
PI507818B	Russia	284.98	19.16	70.24	4
PI507821	Russia	342.77	22.65	60.81	5
PI507826	Russia	261.93	17.26	8.32	4
PI507830B	Russia	303.7	20.75	48.72	4
PI507836	Russia	212.6	14.06	102.25	4

PI326582A	NA	551.7	35.2	79.64	6
PI597471D	NA	413.87	24.86	45.37	6
PI639590A	NA	345.23	17.47	69.93	5
PI639590B	NA	524.53	32.18	15.65	6
PI639621	NA	293.53	18.5	65.17	5

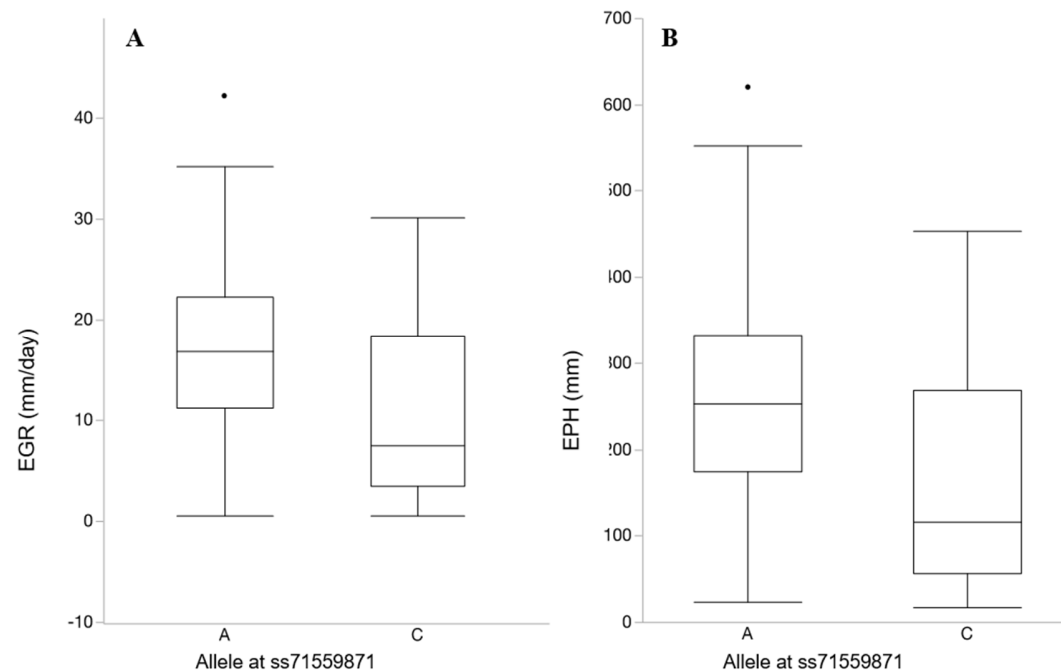


Figure S1. (A) *Glyma.07G055800.1* allele at ss715598271 A/C comparison to EPH (mm) at marker ss715598271, p-value <0.001. **(B)** *Glyma.07G055800.1* allele at ss715598271 A/C comparison to EGR (mm/day) at marker ss715598271, p-value <0.001.