

**Supplementary Table 1.** Onion germplasms, code and their origins used for seed yield and seed yield traits characterization at Muan, Jeollanam-Do, Korea, in 2021-2022

S.N.	Accession	Code	Origin	S.N.	Accession	Code	Origin
1	IT 109552	NPL-BC	NPL	41	IT 163870	[(A/10010-1)-3-M5]-3	UNK
2	IT 121546	PI181929	SYR	42	IT 163872	[(A/10010-1)-6]-2	UNK
3	IT 121547	PI182135	TUR	43	IT 163887	23020-1-M7-13	UNK
4	IT 121576	PI236025	EGY	44	IT 163912	32010-1-1-3	UNK
5	IT 121593	PI262898	IRN	45	IT 163930	[(A/L 04029-2)-1-1]-1	UNK
6	IT 121598	PI262920	RUS	46	IT 172873	Bhus. Hort. Expt. Stat.1991-5725	UNK
7	IT 121600	PI262922	RUS	47	IT 172914	L13017-13-1-M-1	UNK
8	IT 121612	PI264314	ESP	48	IT 172965	(A01012/19027-3)-2W-29-2-1	UNK
9	IT 121613	PI264315	ESP	49	IT 172972	L13017-13-1-M-1	UNK
10	IT 121614	PI264316	ESP	50	IT 187950	Colossal PVP	USA
11	IT 121623	PI264326	ESP	51	IT 187953	Grenoble	USA
12	IT 121624	PI264328	ESP	52	IT 189936	El'dorado	RUS
13	IT 121630	PI264627	DEU	53	IT 200522	Muna	NPL
14	IT 121636	PI268359	AFG	54	IT 202090	Elad [H]	UNK
15	IT 121659	PI288906	HUN	55	IT 202112	USA Early supreme	UNK
16	IT 121660	PI289638	AUT	56	IT 203340	Local-Bukhara	UZB
17	IT 121661	PI289639	AUT	57	IT 220035	65	UZB
18	IT 121686	PI357220	YUG	58	K166281	Ostryi Mestnyi	KAZ
19	IT 121690	PI368355	YUG	59	K166283	Local	RUS
20	IT 121699	PI360336	YUG	60	K166284	Rivato Orig. R.S.	NLD
21	IT 121721	PI433320	CSK	61	K166285	Kyustendilski	BGR
22	IT 121722	PI433322	CSK	62	K166287	Eterna	NLD
23	IT 121728	PI433333	CSK	63	K166288	Ontario	DEU
24	IT 121731	PI433338	CSK	64	K166291	Rouge	-
25	IT 121736	PI433343	CSK	65	K166294	Record-2	BGR
26	IT 121742	PI433409	RUS	66	K166297	Sapporoki-Hokkaido	NLD
27	IT 135868	Sweet Spanish Cilo No 6	USA	67	K166302	Chieftain	DEU
28	IT 135907	Imperial 48	USA	68	K168154	sung 98	MMR
29	IT 136008	Walla Walla Sweet	USA	69	K168290	A7E0421	BGR
30	IT 136041	Red Grano	USA	70	K193739	PI 09	USA
31	IT 136653	Red Creole	USA	71	K193745	PI 40	USA
32	IT 136654	Kathmandu Local	NPL	72	K193747	PI 44	USA
33	IT 163765	[(A/10010-1)-2]-5	UNK	73	K193749	PI 50	USA
34	IT 163766	[(A/L 08063-3-4-1-2)-2]-5	UNK	74	K253737	Mor soğan	TUR
35	IT 163768	[(ABL 04039/L 18018-2)-7]-1	UNK	75	K270686	K243480-2	USA
36	IT 163790	L01017-3-7-1	UNK	76	K271504	GEO-GAAS-2019-7	GEO
37	IT 163857	[(A/AL 04057-3)-1-M <sup>1</sup> ]-1	UNK	77	K271524	GEO-GAAS-2019-27	GEO
38	IT 163861	[(A/L 03015-1-2)-6-M <sup>1</sup> ]-1	UNK	78	K272243	GEO-HDY-2019-241	GEO
39	IT 163864	[(A/L 05027-10)-9-M <sup>1</sup> ]-6	UNK	79	K272274	GEO-GAAS-2019-9	GEO
40	IT 163867	[(A/L 05027-10)-9]/(ABL 04039/L 05027-10)-6]-20	UNK	80	K272283	GEO-GAAS-2019-18	GEO

NPL: Nepal, SYR: Syria, TUR: Turkey, EGY: Egypt, IRN: Iran, RUS: Russia, ESP: Spain, DEU: Deutschland, AFG: Afghanistan, HUN: Hungary, AUT: Austria, YUG: Yugoslavia, CSK: Czechoslovakia, USA: United States of America, UNK: United Kingdom, UZB: Uzbekistan, KAZ: Kazakhstan, NLD: The Netherlands, BGR: Bulgaria, MMR: Myanmar, and GEO: Georgia, -: none.