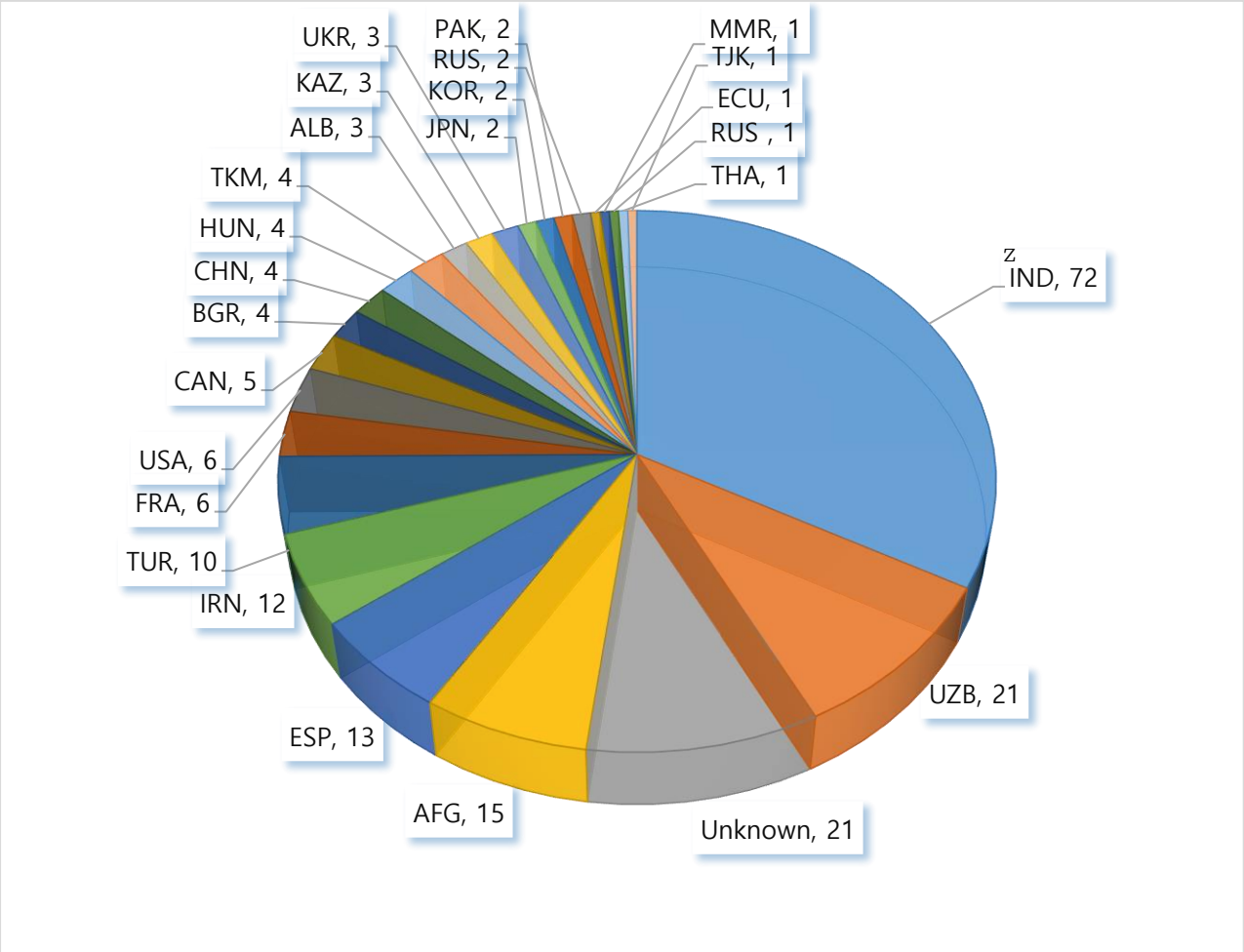
Supplementary data 1. Distribution of 219 melon accessions on different collection countries



z means country code and number of countries. AFG, Afghanistan; ALB, Albania; BGR, Bulgaria; CAN, Canada; CHN, China; ECU, Ecuador; ESP, Spain; FRA, France; HUN, Hungary; IND, India; IRN, Iran; JPN, Japan; KAZ, Kazakhstan; KOR, South Korea; MMR, Myanmar; PAK, Pakistan; RUS, Russian Federation; THA, Thailand; TJK, Tajikistan; TKM, Turkmenistan; TUR, Turkey; UKR, Ukraine; USA, United States of America; UZB, Uzbekistan.

Supplementary data 2. The growth characteristics of melon accessions

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Accession No.	Source (country)	Sex Expression (SE)	Internode Length (cm) (IL)	Leaf Size (LS)	Leaf Teeth at the Margin (LTM)	Fruit Shape (FS)	Fruit Cork Formation and Pattern (FCFP)	Fruit Skin Color (FSC)	Depth of Fruit Grooves (DFG)	Creasing at the Fruit Surface (CFS)	Fruit Weight (g) (FW)	Fruit Length (cm) (FL)	Fruit Width (cm) (FW)	Placenta Width (mm) (PW)	Sugar Content (Brix) (SC)	Fruit Flesh Color (FFC)	Fruit Flavor (FF)	Resistance to Powdery Mildew (RPM)	Seed Coat Color (SCC)	One-Hundred Seed Weight (g) (OHSW)
		1. Monoecy; 2. Andromonoecy 99. Segregation	Average length	3. Small; 5. Medium; 7. Large	3. Weak; 5. Medium; 7. Strong 99. Segregation	1. Globular; 2. Flattened; 3. Oblate; 4. Elliptical; 5. Pyriform; 6. Ovate; 7. Acorn; 8. Elongate; 9. Scallop 99. Segregation	0. Absent; 1. Dots only; 2. Linear; 3. Netted only	1. White; 2. Yellow; 3. Green; 4. Green-gray 99. Segregation	0. Absent; 1. Shallow; 5. Medium; 7. Deep 99. Segregation	1. Absent or very weak; 3. Weak; 5. Medium; 7. Strong; 9. Very strong						1. White; 2. Green; 3. Yellow; 4. Orange; 5. Creamy-white 99; segregation	0. Absent; 1. Present	3;resistant 5;mid-resistant 7; susceptible; all plants	0. Absent; 1. White; 2. Creamy; 3. Yellow-brown; 4. Yellow; 5. Orange; 6. Brown; 7. Gray; 8. Black 99. Segregation	
Serial no.		: at full flowering : all plant	: between 11 and 13th internode length in a main stem : average length of more than 7 plants per accession	: fully expanded the largest leaf in harvest season : more than 7 plants per accession	: degree of leaf teeth of 13th node in a main stem : more than 7plants per accession	: mature fruit : longitudinal section : more than 7 plants per accession	: mature fruit : more than 7 plants per accession	: mature fruit : more than 7 plants per accession	: mature fruit : more than 7 plants per accession	: mature fruit : more than 7 plants per accession	: mature fruit : average weight of more than 7 fruits per accession	: mature fruit : average length of more than 7 fruits per accession	: mature fruit : average length of more than 7 fruits per accession	: mature fruit : average length of more than 7 fruits per accession	: mature fruit : average value of more than 7 fruits per accession	: mature fruit : all harvested fruits	: mature fruit : more than 8 plants per accession	: leaf 3~4 stages	: harvested all seeds	: harvested seeds weight : average value of 100 seeds per accession : 5 replications

1	173184	RUS[z]	2	10.4±0.58[y]	6	5	4	0	2	0	3	1,400±37.12	19.4±0.65	12.4±0.33	6±0.25	3.1±0.15	1	1	7	4	5.1±0.05
2	190341	UZB	2	12.3±0.48	6	5	2	0	2	1	1	706±17.28	10±0.37	11±0.45	6±0.3	7.6±0.12	3	1	7	4	3.585±0.14
3	190454	UZB	99	12.7±0.55	6	3	5	2	2	0	3	1,200±91.28	28±0.54	10.7±0.56	5.5±0.38	7.1±0.1	1	1	7	4	4.84±0.09
4	199217	RUS	2	11.3±0.46	5	5	2	0	2	1	1	776±10.80	16.1±0.41	10.5±0.35	4.9±0.31	5±0.08	3	1	7	4	4.54±0.15
5	805439	KAZ	2	13.3±0.4	7	3	1	0	3	5	1	2,670±63.38	7.8±0.31	8±0.41	8.2±0.41	4±0.09	4	1	7	4	5.485±0.17
6	805452	TKM	2	9.8±0.52	7	5	8	2	2	0	1	1,764±48.24	28.6±0.52	11.1±0.54	6.3±0.32	8.6±0.11	1	1	5	4	5.535±0.18
7	805454	UZB	2	11.7±0.46	7	5	4	3	3	0	1	1,302±36.39	22.6±0.72	12.3±0.5	6.4±0.38	4.6±0.11	1	1	7	4	5.785±0.15
8	805462	IRN	2	14.2±0.52	7	3	8	2	2	1	1	1,104±33.22	24.2±0.58	10.4±0.35	4.1±0.26	3.1±0.26	1	0	7	4	5.015±0.06
9	805480	UZB	2	11.9±0.52	7	5	4	3	3	0	1	2,252±115.69	30.7±0.72	12.1±0.49	4.9±0.31	9.1±0.11	4	1	7	4	4.755±0.15
10	805483	KAZ	2	13.6±0.4	7	5	4	3	2	1	1	916±26.23	15.8±0.45	10.7±0.47	5.1±0.35	6±0.12	4	1	5	4	4.44±0.12
11	805484	TKM	2	12.2±0.54	7	3	4	0	2	0	1	1,894±31.61	22.3±0.55	14±0.45	8±0.34	5.7±0.13	1	1	7	4	6.78±0.1
12	805487	UZB	2	11.3±0.5	6	3	8	2	3	0	1	1,700±29.22	26.1±0.43	11.3±0.48	6±0.32	4.5±0.09	1	1	7	4	5.585±0.12
13	805488	UZB	2	11.2±0.48	7	3	4	2	2	0	1	2,044±55.21	23.1±0.52	14.1±0.51	7.3±0.32	5±0.09	4	1	7	4	6.97±0.07
14	805491	UZB	2	12.4±0.5	6	3	4	2	2	0	1	1,098±24.58	20±0.47	10.5±0.4	5.7±0.28	11.4±0.18	1	1	7	4	5.265±0.08
15	805496	UZB	2	13.7±0.39	6	3	4	0	2	0	1	958±30.21	21.2±0.54	9.9±0.59	5.3±0.26	6.4±0.11	1	1	5	4	4.89±0.05
16	805499	UZB	2	11.7±0.46	6	5	7	3	3	0	1	898±22.21	22±0.41	11.4±0.49	6.1±0.29	9.4±0.14	1	0	7	4	4.545±0.12
17	805501	TKM	2	12.1±0.53	6	5	5	0	2	1	1	980±25.11	20.9±0.49	9.6±0.52	5.1±0.35	4.1±0.14	5	1	7	4	4.965±0.09
18	805502	UZB	2	12.4±0.52	6	3	5	0	2	0	1	738±18.25	19.4±0.4	10.3±0.58	5.2±0.22	5.9±0.17	2	0	5	4	4.995±0.03
19	805505	UZB	2	13.2±0.63	6	3	7	2	2	0	1	1,038±30.01	21.2±0.46	10.3±0.52	5.8±0.36	8.4±0.13	4	1	5	4	4.665±0.14
20	805511	Unknown	2	10.6±0.41	7	3	4	3	2	0	1	1,316±40.21	22.4±0.51	11±0.51	5.4±0.33	6.1±0.1	4	0	7	4	4.885±0.05
21	805513	Unknown	2	10.3±0.44	6	6	8	0	3	1	1	1,152±38.52	26.2±0.39	10.9±0.44	6.5±0.29	5.6±0.09	1	1	7	4	5.55±0.06
22	805516	Unknown	2	11.5±0.51	6	5	4	0	3	5	1	948±27.61	18.5±0.43	9±0.51	5.5±0.33	5.9±0.15	4	0	7	4	4.93±0.12
23	805517	Unknown	2	9.3±0.55	6	3	4	3	2	0	3	1,160±42.58	22±0.49	10±0.38	6.6±0.32	4.4±0.14	4	1	7	4	6.395±0.15
24	805520	Unknown	2	11.6±0.58	6	3	5	3	3	0	1	1,304±52.39	25.9±0.46	10.9±0.46	5.4±0.24	3.2±0.11	1	0	7	4	5.275±0.11
25	805522	Unknown	2	9.7±0.47	6	3	4	2	2	0	1	854±14.27	20.2±0.52	9.9±0.51	5.7±0.37	8.4±0.07	1	1	7	4	4.485±0.19
26	805523	Unknown	2	10.8±0.39	6	5	5	0	3	5	1	520±11.38	15.4±0.39	8.9±0.54	6.1±0.29	7.2±0.2	4	0	7	4	4.425±0.14
27	805524	Unknown	2	11.9±0.44	6	5	4	0	3	0	1	482±15.56	14.8±0.34	7.8±0.52	4.4±0.24	3.1±0.01	1	0	7	4	3.13±0.12
28	805526	Unknown	2	12.5±0.52	6	3	4	0	2	0	1	728±19.14	18.5±0.54	10.2±0.39	5.1±0.31	5.5±0.13	4	1	7	4	5±0.11
29	805528	TKM	2	11.7±0.39	6	3	4	0	3	0	1	836±20.85	17.1±0.52	10.6±0.55	5.5±0.27	11.2±0.19	1	1	7	4	5.33±0.1

30	805532	UZB	2	10.5±0.43	6	3	4	0	3	1	1	618±13.57	17.3±0.36	8.8±0.48	4.4±0.26	6±0.15	1	1	7	4	4.85±0.16
31	807688	UZB	2	11.7±0.48	6	3	4	0	3	0	1	304±9.81	15.3±0.39	6.5±0.41	2.7±0.31	16.4±0.17	1	1	7	4	2.64±0.14
32	808289	THA	2	12.8±0.51	5	5	1	0	99	0	1	560±18.17	9.7±0.31	10.3±0.36	3.3±0.32	10.7±0.11	2	1	3	4	3.515±0.08
33	903200	AFG	2	10.4±0.47	4	3	2	0	2	1	1	848±25.41	14±0.57	11.3±0.29	6.7±0.29	6.4±0.09	5	1	7	4	4.97±0.07
34	903211	UZB	2	7.3±0.54	5	3	3	0	2	1	1	656±24.58	9.3±0.7	11±0.38	6.8±0.25	6.6±0.04	5	1	7	1	4.715±0.16
35	903225	UZB	2	11.1±0.59	6	3	6	0	3	5	1	1022±44.15	4.8±0.27	10.5±0.44	6.1±0.24	4.9±0.15	1	1	7	4	4.465±0.04
36	906951	KOR	2	10.4±0.49	5	5	1	3	4	0	1	1054±38.72	13±0.52	13.4±0.38	6.4±0.34	7.8±0.16	2	1	7	4	2.96±0.15
37	906954	Unknown	2	9.5±0.55	5	6	1	3	4	0	1	684±23.68	10.9±0.46	11±0.51	4.7±0.26	13.4±0.07	2	1	7	4	2.5±0.07
38	906961	JPN	2	11±0.52	5	5	4	0	1	0	1	758±20.57	14±0.59	10.7±0.49	4.6±0.3	8.8±0.16	2	0	5	4	2.49±0.19
39	906963	Unknown	2	8.5±0.56	5	5	2	0	2	0	1	532±14.44	12±0.63	9.3±0.31	4.4±0.27	11±0.14	5	1	5	1	1.895±0.03
40	906964	Unknown	2	10.5±0.59	5	5	1	3	4	0	1	662±20.15	10.3±0.28	10.7±0.46	4.1±0.29	10.9±0.11	2	1	7	1	2.98±0.16
41	906965	Unknown	2	11.6±0.48	5	5	4	0	3	0	1	780±18.95	16.8±0.34	10.1±0.51	4.8±0.34	13.2±0.13	1	0	7	4	3.655±0.14
42	906966	Unknown	2	11.4±0.58	5	5	1	0	1	0	1	522±17.66	10.7±0.54	9.6±0.59	3.8±0.29	9.2±0.08	2	0	3	4	2.84±0.18
43	906968	Unknown	2	9.5±0.57	5	5	1	3	4	0	1	572±10.57	10.7±0.48	10.4±0.52	4.4±0.27	12.2±0.16	2	1	7	1	2.835±0.09
44	906975	Unknown	2	9.3±0.51	5	5	1	0	2	0	1	492±8.97	10±0.36	9.9±0.47	4.6±0.34	13±0.14	1	1	7	1	2.58±0.16
45	909847	Unknown	2	8.8±0.49	5	3	4	0	99	0	1	676±56.81	18.3±0.5	8.9±0.32	4.3±0.26	15.9±0.2	1	1	7	4	4.165±0.12
46	909849	Unknown	2	9.4±0.47	4	3	4	2	3	0	1	1,108±38.51	18.3±0.46	11.2±0.52	4.7±0.24	9.1±0.19	1	0	5	4	5.36±0.09
47	K002891	RUS	1	8.2±0.37	5	3	4	2	2	0	1	1,118±25.48	18.4±0.46	11.9±0.48	4.9±0.39	8.5±0.11	1	1	7	1	4.985±0.07
48	K003003	TJK	2	12.7±0.66	5	5	2	0	3	1	1	1,082±30.5	18.9±0.52	11.4±0.39	5.9±0.34	5.7±0.13	1	0	7	4	6.055±0.12
49	K014686	UZB	2	13.2±0.54	6	3	7	0	2	1	1	1,324±35.62	22.1±0.56	11.3±0.41	5.4±0.39	4.7±0.19	1	1	7	4	4.46±0.12
50	K014694	UZB	2	12.4±0.49	6	5	4	0	3	5	1	1,602±40.82	27.1±0.37	12.6±0.57	6.7±0.38	7.8±0.11	2	1	7	4	5.745±0.13
51	K014700	UZB	2	11.5±0.58	7	3	4	2	2	0	3	1,022±54.91	20.2±0.3	11.3±0.32	7.1±0.21	4.7±0.12	1	0	7	4	6.385±0.19
52	K014703	UZB	2	13.7±0.57	6	5	4	2	2	0	1	1,238±49.46	24.5±0.4	10.4±0.38	4.3±0.26	6±0.13	2	0	7	4	4.625±0.09
53	K014705	UZB	2	12.6±0.6	6	3	4	0	3	0	1	900±59.81	19.9±0.49	9.4±0.46	5.4±0.28	4.5±0.09	1	0	7	4	4.835±0.07
54	K018966	IND	2	11.8±0.58	5	5	3	0	2	1	1	616±33.58	8.2±0.3	12.6±0.51	8.1±0.19	5.8±0.14	4	1	5	4	2.7±0.04
55	K018968	IND	2	13.7±0.49	5	3	5	0	2	0	1	812±45.16	13.4±0.54	12.2±0.5	7.3±0.4	7.6±0.17	1	1	5	4	3.31±0.15
56	K018969	IND	2	11.5±0.52	6	3	1	3	2	0	1	1,132±57.9	12.3±0.35	13.3±0.29	6±0.19	8.9±0.16	5	1	3	1	4.005±0.17
57	K018974	JPN	2	9.2±0.54	4	5	6	0	2	0	1	822±48.19	13±0.48	10.4±0.46	4.9±0.23	7.2±0.19	4	1	5	4	2.82±0.03
58	K037412	CHN	2	8.7±0.35	5	5	4	0	2	0	1	864±50.47	14±0.38	11.5±0.32	5.5±0.38	10.6±0.21	5	1	5	1	2.335±0.19

59	K051416	CHN	2	9.3±0.44	6	5	4	0	2	0	1	892±39.8	13±0.54	11.2±0.57	5.9±0.27	9.7±0.13	5	1	5	1	2.605±0.09
60	K060638	Unknown	2	8.8±0.49	4	3	4	3	2	1	1	1,046±55.17	16±0.38	12±0.51	6±0.26	7±0.05	4	1	7	4	2.715±0.04
61	K126991	MMR	1	10.7±0.51	6	3	2	0	2	5	1	290±8.94	9±0.38	7.8±0.29	4.7±0.25	4.3±0.17	1	1	3	1	1.64±0.16
62	K133663	UZB	2	14.4±0.49	7	3	2	0	2	5	1	442±22.1	10.5±0.4	9.4±0.31	5.7±0.31	6.1±0.06	1	1	7	1	5.805±0.17
63	K138764	Unknown	2	8.7±0.37	6	5	1	3	4	0	1	1,354±61.79	14.9±0.37	13.8±0.54	5.2±0.27	11.5±0.18	2	1	7	4	2.925±0.13
64	K141247	IND	2	10.7±0.55	6	3	4	3	2	0	1	806±54.12	13±0.53	10.7±0.57	4.4±0.29	9.7±0.19	4	1	7	4	3.44±0.12
65	K145159	HUN	2	11.1±0.47	5	5	4	0	3	0	3	1,036±55.91	18.9±0.45	11.4±0.46	4.2±0.36	7.2±0.04	1	0	3	4	6.075±0.12
66	K145164	BGR	2	11.3±0.56	5	5	1	0	1	0	1	1,774±70.57	18.2±0.59	15.7±0.51	9.4±0.34	6.2±0.16	2	1	3	4	4.655±0.09
67	K145166	HUN	1	9.9±0.47	5	5	5	0	2	5	1	1,214±40.58	14.4±0.38	13.5±0.37	6.9±0.3	3.4±0.17	4	1	7	4	2.49±0.04
68	K145170	Unknown	1	8.2±0.49	5	3	5	0	2	5	1	474±33.14	13.5±0.42	8.9±0.53	3±0.39	7.9±0.06	4	1	5	4	2.785±0.12
69	K145172	HUN	2	11.9±0.45	5	5	1	3	2	0	1	1,958±85.79	15.7±0.36	16.5±0.54	4.4±0.24	10.2±0.18	1	1	7	1	3.51±0.13
70	K145173	HUN	2	11.3±0.39	5	5	1	3	2	0	1	1,418±66.15	12.7±0.25	14.9±0.38	6.4±0.29	7.6±0.13	1	1	7	1	4.925±0.15
71	K146753	BGR	2	9.9±0.54	5	5	1	3	2	1	1	1,092±98.57	12.7±0.58	13±0.43	5.4±0.21	7.6±0.15	1	1	3	4	3.9±0.09
72	K146812	BGR	2	11.4±0.48	6	3	1	0	2	5	1	832±42.97	11.6±0.17	11.7±0.49	5.5±0.25	9±0.11	5	1	3	4	5.145±0.12
73	K146932	BGR	2	12.8±0.44	6	5	4	0	2	5	1	600±56.21	12.5±0.24	10.3±0.38	4.4±0.38	7.2±0.07	4	1	3	1	4.61±0.17
74	K151072	UKR	2	10.3±0.51	5	3	1	0	2	0	1	968±61.51	14.6±0.33	13.2±0.54	6.3±0.34	7.2±0.21	1	1	5	1	4.635±0.08
75	K151075	UKR	2	11.2±0.48	4	3	5	0	2	0	1	822±28.99	14.3±0.41	12.9±0.29	6.6±0.24	7.9±0.07	1	1	5	1	3.33±0.01
76	K151093	UKR	2	11.5±0.53	6	3	4	3	2	0	1	2,360±84.95	23.1±0.55	17.4±0.54	10.2±0.26	7.3±0.13	1	1	7	1	3.55±0.03
77	K152719	ECU	2	9.6±0.49	5	3	1	3	4	0	1	950±49.17	12.9±0.14	11.8±0.32	5.2±0.29	8.5±0.16	4	1	3	4	3.14±0.17
78	K163682	KOR	2	11.6±0.55	6	3	2	0	3	0	1	784±56.95	13.3±0.46	10.4±0.54	4.8±0.347	9.3±0.14	4	1	7	4	1.59±0.16
79	K174975	USA	2	12.6±0.47	4	5	2	3	2	1	1	768±65.19	12.3±0.25	10.1±0.47	4.3±0.37	8.1±0.19	4	1	3	4	3.06±0.05
80	K175016	USA	2	11.9±0.54	5	5	5	3	4	5	1	1,916±88.67	22.5±0.38	13.1±0.57	6.4±0.26	8.9±0.16	4	1	3	4	3.125±0.07
81	K189080	IND	1	9.7±0.39	5	3	5	0	2	1	1	1,142±78.59	21.2±0.47	11±0.35	7.1±0.21	2.6±0.05	4	1	7	1	2.565±0.14
82	K189096	IND	1	11.5±0.58	5	5	8	0	2	0	1	744±51.12	14.8±0.55	8.4±0.21	4.6±0.34	4±0.09	4	1	7	1	2.55±0.19
83	K189097	IND	1	11.6±0.56	4	3	5	0	2	0	1	392±22.94	14.9±0.49	7.5±0.25	4.2±0.29	6.3±0.16	4	1	5	1	2.6±0.06
84	K189109	FRA	2	8.3±0.59	5	5	4	0	1	0	1	628±54.89	13.6±0.36	10.6±0.44	5.8±0.35	9.6±0.18	2	0	3	4	3.65±0.07
85	K189111	FRA	2	7.3±0.49	5	5	3	0	2	5	1	705±40.39	10±0.28	11±0.46	5.5±0.24	6.2±0.19	4	1	7	4	3.085±0.17
86	K189112	FRA	2	9.5±0.48	5	3	1	0	2	1	1	530±41.78	10.4±0.33	10.3±0.48	4.1±0.36	10.8±0.18	4	1	7	4	3.395±0.12
87	K189117	CHN	2	10.2±0.53	6	3	5	0	3	5	1	418±22.14	12.5±0.29	8.2±0.32	4.1±0.29	10.4±0.14	4	1	7	4	1.795±0.13

88	K189121	ALB	99	10.6±0.52	5	5	1	0	2	5	1	978±84.77	12.4±0.45	12.9±0.19	7.7±0.29	7.4±0.15	4	99	5	4	3.62±0.13
89	K189122	ALB	1	10.6±0.48	6	5	4	0	2	0	5	500±41.95	15.8±0.47	8.2±0.48	3.7±0.34	3.2±0.04	4	1	5	4	4.485±0.12
90	K189123	ALB	2	11.1±0.47	5	5	4	0	2	0	1	866±87.17	12.8±0.43	12.9±0.38	7.3±0.31	10±0.19	1	0	5	4	5.26±0.09
91	K189125	FRA	1	9.3±0.41	5	5	4	0	2	5	3	532±50.97	14.6±0.51	9.7±0.47	5.4±0.32	8±0.16	4	1	5	4	3.4±0.11
92	K189127	FRA	2	10.2±0.42	5	5	1	0	2	5	1	720±66.58	11.9±0.28	11.1±0.43	5.4±0.31	7.5±0.18	4	1	7	4	3.29±0.17
93	K189128	FRA	2	8.9±0.42	5	5	3	0	2	7	5	1,028±51.78	10.5±0.37	15±0.39	7.4±0.36	5±0.02	4	1	5	1	3.505±0.09
94	K189148	USA	99	10.1±0.48	4	3	8	0	2	5	1	602±61.51	17±0.55	8.6±0.44	5.4±0.34	4.6±0.18	4	1	5	99	2.67±0.04
95	K189163	ESP	2	9.4±0.59	5	5	4	0	1	0	3	690±25.11	14.6±0.24	9.9±0.51	4.9±0.21	10.1±0.14	2	0	5	1	5.6±0.13
96	K189166	ESP	2	10.5±0.54	6	3	7	0	2	0	3	588±40.58	13.5±0.36	10.1±0.36	5.7±0.29	7.3±0.14	2	1	5	1	5.445±0.15
97	K189173	ESP	2	11.2±0.52	5	5	1	2	3	0	1	376±25.98	9.4±0.34	9.2±0.47	3.9±0.39	9.6±0.16	1	1	7	4	3.735±0.05
98	K189175	ESP	2	11.5±0.43	6	5	4	0	2	0	3	314±46.11	11.9±0.28	7.2±0.29	3.4±0.26	6.8±0.17	1	0	5	4	3.47±0.04
99	K189179	ESP	99	10.4±0.47	6	5	1	0	1	99	1	478±12.87	10.2±0.57	9.9±0.36	4.8±0.34	4.9±0.12	4	1	5	99	4.045±0.14
100	K189184	ESP	2	9.8±0.38	5	5	5	0	3	0	3	692±47.99	16±0.43	9.7±0.54	4.2±0.37	9.4±0.16	1	1	3	4	4.75±0.13
101	K189198	ESP	2	10.1±0.39	6	5	4	0	3	0	5	612±58.47	16.9±0.58	9.4±0.58	4.7±0.28	9.8±0.13	1	1	3	4	4.26±0.16
102	K189199	ESP	2	10.2±0.55	6	3	4	0	2	0	3	736±66.01	15.3±0.46	10.4±0.29	4.7±0.25	12.4±0.15	2	0	3	4	3.38±0.12
103	K189200	ESP	2	9.8±0.42	6	5	1	0	2	0	3	1,004±55.16	15.4±0.38	13.9±0.34	6.3±0.24	12.7±0.19	1	0	3	1	4.475±0.07
104	K189205	ESP	2	10.2±0.51	6	5	4	0	3	0	3	1,190±87.59	19.4±0.29	11.2±0.37	4.4±0.26	8.7±0.08	1	0	3	4	4.6±0.04
105	K189211	ESP	2	11.5±0.48	5	5	2	0	2	0	1	528±44.56	12.6±0.56	9.1±0.54	5.2±0.34	5.7±0.16	4	1	3	1	5.33±0.14
106	K189219	ESP	2	11.3±0.45	6	5	4	0	3	0	3	658±50.23	17.4±0.66	9.3±0.32	4.2±0.31	12.9±0.21	1	0	3	4	3.835±0.13
107	K189220	ESP	2	9.9±0.55	6	3	4	0	2	0	3	808±39.57	16.3±0.58	10±0.51	4.7±0.32	10.3±0.18	1	1	3	4	4.555±0.14
108	K189224	KAZ	2	11.4±0.52	6	3	4	0	2	0	3	570±24.61	19.5±0.28	9.6±0.34	5.1±0.39	6.5±0.17	1	1	7	4	3.565±0.11
109	K189229	IND	1	10.1±0.49	5	3	8	0	1	0	5	1,196±68.47	38±0.47	6.7±0.47	4.5±0.35	8.4±0.15	4	1	5	4	2.425±0.1
110	K189236	IND	1	10.3±0.55	5	3	5	0	2	0	1	308±11.57	12.5±0.36	7.1±0.27	4.7±0.34	4.8±0.12	4	1	7	4	2.095±0.13
111	K189241	IND	1	9.6±0.47	5	3	8	0	2	0	1	654±56.19	18.7±0.29	7.4±0.13	4.9±0.33	5.1±0.1	5	1	7	1	2.645±0.14
112	K189253	IND	1	11.2±0.46	5	3	8	0	2	0	1	544±24.89	17.8±0.31	6.5±0.44	3±0.29	9.4±0.12	4	1	7	1	2.12±0.09
113	K189258	IND	1	11.1±0.35	6	3	8	0	2	0	1	860±38.64	24.3±0.29	7.7±0.37	4.3±0.29	5.8±0.16	5	1	7	1	3.24±0.18
114	K189265	IND	1	9.8±0.46	5	3	4	0	2	0	1	902±40.45	15.3±0.56	10.4±0.31	6.7±0.36	8.3±0.15	5	1	7	1	2.46±0.05
115	K189274	IND	1	9.7±0.57	4	3	5	0	2	0	1	412±29.11	18.9±0.43	7.7±0.48	4.5±0.24	6.3±0.16	5	1	7	1	2.8±0.14
116	K189287	IND	1	8.1±0.52	5	3	1	0	2	1	1	302±16.78	8.9±0.46	7.5±0.51	4.7±0.26	6.7±0.14	5	1	5	1	1.89±0.13

117	K189288	IND	1	8.8±0.4	5	3	5	0	2	0	1	576±57.18	18.3±0.55	8.4±0.26	4.2±0.35	7.1±0.13	4	1	7	1	2.4±0.17
118	K189291	IND	1	9.7±0.43	6	3	8	0	2	0	1	616±60.54	20.2±0.57	8.9±0.38	5.4±0.29	5±0.11	4	1	7	1	3.105±0.11
119	K189303	IND	1	11.4±0.48	5	3	8	0	2	0	1	406±52.17	11.8±0.29	7.6±0.49	4.9±0.24	5.3±0.15	4	1	7	4	2.71±0.12
120	K189337	IND	1	10.6±0.55	3	3	6	0	3	0	1	28±5.67	4.9±0.36	2.9±0.36	2.1±0.27	5.6±0.16	1	0	7	4	1.265±0.12
121	K189338	IND	1	10.9±0.54	6	3	8	0	2	0	1	720±46.85	18.5±0.57	9.9±0.47	5.9±0.36	5.3±0.12	4	1	7	4	2.13±0.04
122	K189346	IND	1	10.4±0.38	5	3	8	0	2	0	1	848±90.1	23.4±0.46	8.7±0.49	4.4±0.34	5.2±0.17	4	1	5	1	3.055±0.14
123	K189348	IND	1	10.9±0.47	5	3	8	0	2	0	1	846±47.88	21.2±0.55	9±0.51	5.3±0.39	7.1±0.15	4	1	5	4	3.145±0.17
124	K189353	IND	1	8.4±0.56	6	3	8	0	2	0	1	690±69.54	19.2±0.46	7.9±0.54	4.7±0.39	5.3±0.15	4	1	5	4	2.205±0.13
125	K189364	IND	1	10.3±0.51	5	3	8	0	2	0	1	1,050±87.11	23.6±0.57	9.9±0.27	4.5±0.36	5±0.15	4	1	5	1	2.935±0.05
126	K189368	IND	1	9.9±0.44	5	3	2	0	2	0	1	924±54.87	14.5±0.44	9.3±0.39	5.7±0.34	4.6±0.16	5	1	7	4	2.635±0.19
127	K189375	IND	2	12.3±0.54	4	3	8	0	2	0	1	742±34.71	20±0.39	8.6±0.25	5.3±0.38	4.6±0.13	4	1	5	1	2.45±0.12
128	K189376	IND	1	11.1±0.46	3	3	6	0	2	0	1	262±31.12	13.7±0.29	6.7±0.19	4.1±0.31	7.9±0.12	1	1	3	4	2.44±0.13
129	K189377	IND	1	11.4±0.51	5	3	8	0	2	0	1	934±57.98	23.9±0.69	8.7±0.32	5.4±0.29	5.7±0.1	4	1	5	1	2.6±0.02
130	K189378	IND	1	10.2±0.52	4	3	6	0	2	0	1	512±40.12	15.2±0.51	6.7±0.22	3.6±0.35	7.7±0.19	1	1	3	4	2.43±0.15
131	K189379	IND	1	8.4±0.49	4	3	6	0	2	0	1	374±22.82	15.3±0.56	7.3±0.48	4.4±0.35	8.6±0.1	4	1	7	4	2±0.14
132	K189382	IND	1	10.2±0.43	5	3	6	0	2	0	1	770±60.17	20.6±0.61	9.1±0.41	4.2±0.24	7.4±0.13	4	1	7	1	2.11±0.12
133	K189384	IND	1	9.1±0.37	5	3	8	0	2	0	1	420±69.47	17±0.54	7.4±0.32	3.6±0.26	7.8±0.14	4	1	7	4	2.115±0.13
134	K189396	IND	1	10.1±0.38	5	5	4	0	2	0	1	804±65.48	19.9±0.57	9.6±0.55	5.2±0.38	5.6±0.14	4	1	7	4	2.52±0.04
135	K189410	IND	1	10.2±0.4	5	3	8	0	2	0	1	338±25.69	6.3±0.19	6.7±0.21	3.4±0.29	8±0.16	5	1	7	1	2.225±0.05
136	K189442	IND	1	10.5±0.42	7	3	8	0	1	0	5	1,890±105.49	66±0.75	8±0.34	4.5±0.24	2.9±0.15	5	1	7	1	3.01±0.11
137	K189456	IND	1	12.4±0.57	6	3	5	0	2	1	1	1,440±98.56	25±0.61	10.8±0.48	5±0.35	5.7±0.14	4	1	3	4	3.595±0.14
138	K189460	IND	1	9.4±0.55	5	3	6	0	2	1	1	338±28.17	14.2±0.51	7.1±0.23	3.9±0.21	7.3±0.11	4	1	3	4	2.485±0.13
139	K189462	IND	1	9.1±0.46	4	3	2	0	2	1	1	242±17.64	9.3±0.11	6.2±0.46	2.8±0.39	6.5±0.13	4	1	3	4	2.18±0.12
140	K189463	IND	1	8.5±0.47	4	3	6	0	2	1	1	400±15.24	11.9±0.23	7.6±0.37	4±0.37	7.8±0.16	1	1	3	4	2.45±0.06
141	K189471	IND	1	8.3±0.51	4	3	2	0	2	1	1	654±18.65	12.7±0.56	8.9±0.24	4.4±0.33	5.8±0.15	4	1	5	1	2.59±0.07
142	K189488	USA	2	11.5±0.52	5	3	1	3	2	5	1	542±20.88	11.5±0.31	10.5±0.19	5.1±0.29	5±0.14	4	1	7	99	3.575±0.12
143	K189491	USA	2	11.4±0.55	5	3	1	3	2	5	1	690±69.71	10.6±0.63	11.1±0.3	5.4±0.28	7.6±0.12	4	1	3	4	3.385±0.14
144	K189492	CHN	99	10.3±0.49	5	5	2	0	4	1	1	908±90.47	14.4±0.24	11.3±0.48	6.6±0.24	7.3±0.12	2	1	5	99	3.285±0.16
145	K189498	IND	2	10.6±0.48	6	3	4	2	2	5	1	998±85.72	21.9±0.43	10.5±0.51	6±0.2	5.8±0.16	4	1	3	4	3.81±0.14

146	K189501	IND	99	10.8±0.57	5	3	3	0	2	5	1	375±30.01	9±0.19	9.2±0.26	6±0.34	4.8±0.19	4	1	5	4	2.77±0.12
147	K189509	PAK	2	11.7±0.55	5	3	3	0	2	0	1	490±25.76	8.3±0.22	10.6±0.47	7.2±0.36	5.6±0.1	1	1	7	1	3.125±0.12
148	K189516	IND	1	10.8±0.5	6	3	6	2	2	0	1	1,436±69.81	20±0.36	12.4±0.28	7.3±0.24	3.1±0.16	4	1	7	4	4.61±0.04
149	K189519	IND	1	9.9±0.48	5	3	4	2	2	5	1	1,874±80.47	22.9±0.64	14.4±0.38	6.5±0.38	7.2±0.16	1	1	7	4	2.655±0.03
150	K189520	IND	99	10.7±0.51	6	3	1	0	2	1	1	451±55.15	9.5±0.2	9.4±0.34	6.2±0.24	4.2±0.12	4	1	3	1	3.495±0.14
151	K189535	IND	99	11.9±0.54	5	3	2	0	2	5	1	506±62.47	14.9±0.39	8.2±0.27	4.8±0.37	4.7±0.16	4	1	5	1	2.33±0.13
152	K189541	IND	2	11.3±0.53	5	5	1	0	2	1	1	716±33.48	12.4±0.46	11.1±0.51	5.1±0.39	5.8±0.12	4	1	5	1	3.23±0.02
153	K189546	IND	1	7.9±0.52	3	5	99	0	2	99	1	232±22.21	10.3±0.23	7.1±0.38	4.7±0.24	3.2±0.14	4	1	5	1	2.69±0.09
154	K189547	IND	99	10.9±0.49	6	3	7	0	2	0	1	1,052±89.71	19.2±0.41	11.3±0.47	7.2±0.39	3.6±0.16	4	1	3	1	2.81±0.11
155	K189553	IND	2	14.1±0.6	6	3	7	0	2	5	1	1,100±80.56	18.1±0.61	12.5±0.33	9.2±0.24	4.9±0.15	4	1	5	1	4.375±0.12
156	K189554	IND	1	13.2±0.57	6	3	4	2	1	5	1	638±45.66	14.2±0.46	9.4±0.29	5.7±0.26	5.5±0.04	4	1	5	99	3.55±0.14
157	K189560	IND	1	12.9±0.59	6	5	99	0	99	5	1	714±87.1	11.5±0.23	11±0.34	7.2±0.37	5.4±0.14	4	1	5	4	3.48±0.19
158	K189561	IND	2	13.6±0.59	6	3	4	0	3	5	1	1,208±77.58	19±0.31	13.2±0.48	9.3±0.26	7.4±0.13	4	1	7	4	4.47±0.15
159	K189564	IND	2	12.4±0.45	5	3	3	0	2	1	1	660±40.97	10.2±0.44	12.1±0.51	7.6±0.37	6.3±0.19	1	1	7	4	3.685±0.14
160	K189581	AFG	2	11.4±0.51	7	3	4	0	4	1	3	542±55.12	15.3±0.37	8.2±0.22	4.9±0.26	3.4±0.17	1	1	5	4	4.285±0.13
161	K189585	AFG	2	11.6±0.43	6	3	8	0	2	1	1	1,208±88.41	22±0.64	11±0.84	5.7±0.29	7.5±0.12	1	1	5	1	3.62±0.08
162	K189599	AFG	2	10.4±0.52	6	3	4	0	3	0	1	692±69.84	17.9±0.29	9.3±0.18	4.9±0.34	2.8±0.18	5	1	7	4	4.735±0.07
163	K189600	AFG	2	11.6±0.55	6	3	4	2	3	1	1	528±56.47	16.7±0.37	7.9±0.49	4.4±0.31	14.3±0.13	2	1	7	99	3.29±0.14
164	K189603	AFG	99	11.6±0.49	5	3	4	0	99	1	1	210±25.19	10.5±0.26	6.9±0.41	3.4±0.22	4±0.19	1	0	7	99	2.73±0.12
165	K189612	AFG	2	8.8±0.5	5	3	4	0	3	1	1	550±64.12	16.4±0.22	7.7±0.47	4.2±0.26	7.2±0.12	1	1	7	4	3.855±0.13
166	K189644	AFG	99	8.9±0.56	5	5	99	0	99	1	1	532±29.87	8±0.31	9.7±0.32	4.9±0.24	11.6±0.21	4	1	7	4	4.92±0.13
167	K189652	AFG	2	12.4±0.57	6	3	6	0	2	1	1	890±59.71	15.2±0.19	11±0.54	6.2±0.29	5.4±0.16	1	1	7	4	5.33±0.13
168	K189665	AFG	2	10.2±0.48	6	3	6	0	2	0	1	1,004±87.45	16.6±0.34	10.9±0.29	5.7±0.26	6.7±0.15	1	1	7	1	4.235±0.14
169	K189672	AFG	2	10.3±0.39	6	5	99	0	99	0	1	490±33.47	10.5±0.27	11±0.33	6.8±0.3	8.8±0.08	1	1	7	1	3.25±0.11
170	K189693	AFG	2	9.7±0.38	5	3	4	0	4	1	1	594±44.78	14.3±0.51	9.4±0.24	4.9±0.4	6.4±0.12	1	1	7	4	4.86±0.19
171	K189702	AFG	2	9.9±0.4	5	5	5	0	2	0	1	620±60.89	14±0.44	9.3±0.32	5.1±0.29	4.3±0.13	5	1	7	1	5.31±0.15
172	K189704	AFG	2	9.3±0.36	6	3	4	0	2	5	1	796±54.12	16.6±0.58	9.7±0.29	5.6±0.34	5.6±0.16	4	1	7	4	3.725±0.13
173	K189719	AFG	2	12.1±0.57	6	3	2	0	2	5	1	876±91.79	15.7±0.61	11.1±0.45	6±0.29	4.2±0.15	1	1	7	4	4.475±0.11
174	K189722	IND	2	12.3±0.51	6	5	4	0	2	1	3	444±22.48	14.1±0.36	7.9±0.14	4.8±0.34	4±0.18	4	1	7	99	4.23±0.09

175	K189750	CAN	2	11.2±0.54	6	3	4	0	2	1	1	1,060±88.72	16.8±0.48	12.4±0.25	6.5±0.31	5.3±0.19	4	1	7	4	4.76±0.11
176	K189760	CAN	2	13.1±0.49	5	3	6	0	2	1	1	300±28.33	10.2±0.26	8.7±0.26	4.8±0.22	3.6±0.14	4	0	7	4	2.265±0.14
177	K189761	CAN	1	13.4±0.56	6	3	4	0	2	1	1	758±87.45	13.3±0.39	10.1±0.47	4.5±0.34	4.3±0.16	4	1	7	4	2.705±0.12
178	K189764	CAN	2	12.6±0.57	6	3	6	0	2	1	1	710±44.89	15.5±0.64	9.5±0.28	5.8±0.39	4.4±0.15	5	1	7	4	3.21±0.07
179	K189765	CAN	1	10.5±0.49	6	3	7	0	2	0	3	526±39.47	14.7±0.25	9±0.31	4.3±0.26	3.3±0.13	4	1	7	99	4.065±0.16
180	K189767	IRN	1	8.8±0.35	3	5	6	0	3	1	1	15±5.48	3.8±0.44	2.6±0.17	1.9±0.36	5.9±0.07	1	0	7	4	0.735±0.01
181	K189778	IRN	1	14.2±0.57	6	5	99	0	2	1	1	950±76.97	19±0.58	10.9±0.22	5.8±0.37	6.5±0.13	4	1	7	1	4.7±0.16
182	K189780	IRN	2	11.6±0.48	6	5	4	0	3	5	1	1,162±69.77	24.1±0.44	11.4±0.58	7.1±0.29	7.7±0.19	2	1	7	4	4.4±0.15
183	K189787	IRN	2	8.3±0.46	5	3	1	0	99	5	1	476±19.52	9.8±0.48	9±0.16	5.3±0.39	3.9±0.19	4	1	7	4	2.335±0.13
184	K189789	IRN	2	8.6±0.38	5	5	1	0	2	5	1	564±46.11	10.7±0.29	9.8±0.34	5.5±0.29	7.9±0.18	4	1	7	1	4.02±0.14
185	K189792	IRN	99	10.8±0.49	5	5	99	0	99	1	3	840±95.1	25±0.68	9.3±0.47	5±0.31	6.9±0.14	4	1	7	1	3.91±0.09
186	K189793	IRN	2	12.3±0.55	5	3	4	0	2	1	1	358±22.78	10.5±0.24	8.6±0.29	4.8±0.29	7.5±0.15	1	1	7	1	3.825±0.15
187	K189795	IRN	2	14.2±0.51	5	5	6	0	99	0	1	614±52.78	11±0.36	9.9±0.43	5.9±0.27	12.4±0.19	1	1	5	4	5.105±0.14
188	K189797	IRN	99	8.6±0.42	5	3	6	0	2	5	1	770±48.14	13.6±0.55	10.6±0.64	4.9±0.24	5±0.08	5	1	3	4	2.74±0.18
189	K189801	IRN	2	10.2±0.43	4	5	5	2	2	0	1	524±22.97	10.5±0.42	10.5±0.19	7±0.37	3.9±0.17	1	1	7	99	2.155±0.14
190	K189802	IRN	2	9.4±0.39	7	3	2	0	2	0	1	876±68.54	13.4±0.51	11.3±0.47	5.9±0.31	8.1±0.19	4	1	3	99	3.99±0.13
191	K189816	IND	1	6.7±0.35	5	5	2	0	2	1	1	182±11.47	8±0.55	6.8±0.26	4.3±0.29	3±0.15	4	1	5	1	2.09±0.16
192	K189818	PAK	2	9.5±0.4	6	3	3	0	2	1	1	824±56.47	13.5±0.54	12±0.54	8.5±0.38	6.2±0.09	4	1	7	1	3.06±0.16
193	K189820	USA	2	11.2±0.41	5	3	1	3	2	5	1	644±69.31	11±0.39	10.2±47	5.1±0.4	5.7±0.14	4	1	3	4	2.75±0.09
194	K189824	IND	99	12.3±0.51	6	3	99	0	2	1	1	774±35.17	14.9±0.34	10.4±0.52	5.3±0.29	7.7±0.04	4	1	7	99	3.09±0.05
195	K189830	IND	99	10.4±0.52	5	3	8	0	2	5	1	1,354±98.13	32.5±0.87	10.4±0.31	5±0.34	9.3±0.19	4	1	7	1	3.04±0.17
196	K189834	IND	1	13.3±0.56	6	3	99	2	99	1	1	567±30.47	19±0.69	6.8±0.21	3.9±0.29	3.5±0.15	1	1	7	1	2.395±0.07
197	K189839	IND	99	12.4±0.51	6	5	8	0	2	1	5	428±14.98	35±0.88	6.4±0.46	3.3±0.26	3.1±0.08	1	1	7	1	2.44±0.19
198	K189840	IND	2	11.5±0.57	5	5	1	0	2	1	1	292±21.57	7.6±0.12	7.4±0.51	4.7±0.34	5.5±0.04	4	1	7	1	2.435±0.05
199	K189841	IND	2	14.2±0.46	6	3	5	0	2	0	1	528±66.14	15.1±0.56	8.1±0.59	5±0.31	4.9±0.11	1	1	7	1	2.44±0.16
200	K189842	IND	1	13.3±0.51	5	3	8	0	3	0	1	1190±88.17	25.4±0.54	19.8±0.66	4.8±0.39	5.3±0.12	4	1	3	99	2.89±0.13
201	K189843	IND	1	11.7±0.49	4	5	6	0	3	0	1	17±2.98	4.3±0.05	2.9±0.51	2.1±0.33	7.8±0.19	1	0	5	1	0.85±0.11
202	K189848	IND	99	15.3±0.68	6	5	99	3	4	0	1	1,444±101.47	15±0.36	14.1±0.25	7.5±0.38	9.9±0.17	2	1	5	99	4.15±0.07
203	K189849	IND	99	15.3±0.59	6	3	4	0	3	0	1	1,308±85.13	21.6±0.79	11.4±0.18	5.3±0.28	5.8±0.04	4	1	5	1	4.705±0.12

204	K189853	IND	99	14.3±0.39	5	5	1	3	2	5	1	900±90.14	12±0.36	11±0.44	3.7±0.28	6.6±0.16	4	1	3	4	2.655±0.14
205	K189856	IND	2	13.3±0.46	6	3	99	0	99	1	1	884±38.41	21.2±0.64	9.7±0.37	4.4±0.39	7.9±0.14	4	1	3	99	2.9±0.15
206	K189857	IND	1	14.3±0.47	5	4	5	2	2	1	1	1,562±86.59	2556±0.58	12.9±0.29	7.8±0.35	7.2±0.1	4	1	3	99	3.6±0.09
207	K189864	IND	1	13.7±0.4	4	5	6	2	2	5	1	848±40.12	14±0.64	11.8±0.19	6.4±0.36	5.1±0.09	4	1	3	1	3.095±0.08
208	K189865	IND	1	13.3±0.42	4	3	1	0	2	1	1	438±38.97	12.5±0.55	8.9±0.18	6.4±0.24	4.2±0.15	4	1	3	1	3.555±0.09
209	K189878	TUR	2	14.3±0.56	5	6	4	0	2	0	3	1,246±77.99	16.2±0.28	12.8±0.29	6.3±0.29	7.6±0.14	1	1	5	4	4.92±0.14
210	K189886	IND	1	11.7±0.55	5	3	99	0	99	0	3	822±66.15	29.3±0.93	8.4±0.37	4.5±0.36	7.9±0.13	4	1	5	1	3.555±0.14
211	K189900	TUR	99	13.7±0.47	5	5	8	0	2	0	5	884±87.25	27.5±0.13	8.9±0.42	5±0.31	4.4±0.17	4	1	3	99	3.77±0.15
212	K189904	TUR	2	12±0.38	5	5	3	0	1	1	1	688±34.18	10.5±0.8	11.6±0.58	6.2±0.28	9±0.19	2	1	5	4	2.94±0.17
213	K189912	TUR	2	13.3±0.56	5	3	5	0	2	0	1	464±33.78	11±0.45	9.5±0.49	5.9±0.39	5.1±0.07	4	1	3	1	3.305±0.13
214	K189919	TUR	2	13.7±0.49	6	5	5	0	2	0	1	826±82.17	13±0.64	12.3±0.36	7.3±0.24	11.2±0.18	1	0	3	4	3.165±0.15
215	K189935	TUR	2	15.7±0.55	6	5	8	0	2	0	1	1,092±105.47	19.9±0.68	8.6±0.47	4.7±0.21	4.9±0.16	1	1	5	4	4.53±0.08
216	K189938	TUR	1	12.3±0.51	5	5	99	0	99	1	1	284±16.87	11.4±0.37	6.7±0.43	4.2±0.22	8.8±0.13	1	1	5	99	3.83±0.13
217	K189943	TUR	1	12.7±0.37	5	3	99	0	2	1	1	1,218±107.01	19.7±0.75	11.8±0.39	6.6±0.26	6±0.11	4	1	5	99	3.955±0.16
218	K189949	TUR	2	14.7±0.48	5	5	3	0	2	5	1	232±25.75	6.1±0.12	6.9±0.51	3.8±0.36	4.8±0.14	1	1	7	1	3.27±0.15
219	K189951	TUR	2	16.3±0.47	5	5	99	0	2	1	1	548±66.14	16.2±0.62	9.4±0.49	5.3±0.29	9.6±0.17	4	1	7	99	2.455±0.11

[z] values are mean standard error.

[y] AFG, Afghanistan; ALB, Albania; BGR, Bulgaria; CAN, Canada; CHN, China; ECU, Ecuador; ESP, Spain; FRA, France; HUN, Hungary; IND, India; IRN, Iran; JPN, Japan; KAZ, Kazakhstan; KOR, South Korea; MMR, Myanmar; PAK, Pakistan; RUS, Russian Federation; THA, Thailand; TJK, Tajikistan; TKM, Turkmenistan; TUR, Turkey; UKR, Ukraine; USA, United States of America; UZB, Uzbekistan.

Supplementary data 3. The results of BlastN analysis of CmOr gene sequences by amplified OrFr4 and OrR15 primers in the representative 11 melon accessions

Serial No.	Accession No.	Phenotype	Primer		Sequence	Description	Max score	Total score	Query cover	E value	Identity	Accession
1	805502	green	OrF4	OrR15	>805502 TTCATGTGACAATTAGGAATAATTTATCTGTAAATTAAATG TTAACTTAACATGATTTTATGCAGTTTTTGTATCATAGAGG GACCGGAAACAGTACAAGATTTTGCAAAAATGGAACTGCA AGAAATTCAGGAGAACATTCGAAGTCGTCGAAACAAAATT TTCTTGCATATGGAAGAGGTGAGACTTAGTGGACATTTTGC GTAGTAGTACGGACTATTCTCATGAACTGATTGATTATTCG CGCATATGAAATTTTAAGTTTTTAGATGTGTCCAAGATTTC GTTACCTTGAAAAATCCTTACCCAGCCAAAGCCGTCATTTG GGGGGACCACTGCCAAGTATTAGCATTATTTTTCTGTGATG AGAGTGATAAATATGTGTCAGACACTTGGATTTGGGCTATT GATCCTTCTTCATCGTTCTCTATCAAATCTCTCATGGTGACT TGATGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	854	854	100%	0	99.79%	LN713263.1
2	808289	green			>808289 TTCATGTGACAATTAGGAATAATTTATCTGTAAATTAAATG TTAACTTAACATGATTTTATGCAGTTTTTGTATCATAGAGG GACCGGAAACAGTACAAGATTTTGCAAAAATGGAACTGCA AGAAATTCAGGAGAACATTCGAAGTCGTCGAAACAAAATT TTCTTGCATATGGAAGAGGTGAGACTTAGTGGACATTTTGC GTAGTAGTACGGACTATTCTCATGAACTGATTGATTATTCG CGCATATGAAATTTTAAGTTTTTAGATGTGTCCAAGATTTC GTTACCTTGAAAAATCCTTACCCAGCCAAAGCCGTCATTTG GGGGGACCACTGCCAAGTATTAGCATTATTTTTCTGTGATG AGAGTGATAAATATGTGTCAGACACTTGGATTTGGGCTATT	Cucumis melo genomic chromosome, chr_9	861	861	100%	0	100.00%	LN713263.1

					GATCCTTCTTCATCGTTCTCTATCAAATCTCTCATGGTGACT TGATGGGTTTTGTTGA							
3	906951	green			>906951 TTCATGTGACAATTAGGAATAATTTATCTGTAAATTAAATG TTAACTTAACATGATTTTATGCAGTTTTTGTATCATAGAGG GACCGGAAACAGTACAAGATTTTGCAAAAATGGAACTGCA AGAAATTCAGGAGAACATTCGAAGTCGTCGAAACAAAATT TTCTTGCATATGGAAGAGGTGAGACTTAGTGGACATTTTGC GTAGTAGTACGGACTATTCTCATGAACTGATTGATTATTCG CGCATATGAAATTTTAAGTTTTTAGATGTGTCCAAGATTTC GTTACCTTGAAAAATCCTTACCCAGCCAAAGCCGTCATTTG GGGGGACCACTGCCAAGTATTAGCATTATTTTTCTGTGATG AGAGTGATAAATATGTGTCAGACACTTGGATTTGGGCTATT GATCCTTCTTCATCGTTCTCTATCAAATCTCTCATGGTGACT TGATGGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	861	861	100%	0	100.00%	LN713263.1
4	199217	yellow			>199217 TCTCCTTGGTTTTCTTCATGTGACAATTAGGAATAATTTATC TGTAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTT GTATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAA AATGGAACTGCAAGAAATTCAGGAGAACATTCGAAGTCGT CGAAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTA GTGGACATTTTGCGTAGTAGTACGGACTATTCTCATGAACT GATTGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGT GTCCAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAA AGCCGTCATTTGGGGGGGACCACTGCCAAGTATTAGCATTAT TTTTCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGG ATTTGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCT CTCATGGTGACTTGATGGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	887	887	100%	0	100.00%	LN713263.1

5	805439	orange			>805439 TCTCCTTGGTTTCTTCATGTGACAATTAGGAATAATTTATCT GTAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTTG TATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAAA ATGGAACTGCAAGAGATTCAGGAGAACATTCGAAGTCATC GAAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTAGT GGACATTTTGCGTAGTAGTACGGAATATTCTCATGAACTGA TTGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGTGT CCAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAAAG CCGTCATTTGGGGGGACCACTGCCAAGTATTAGCATTATTT TTCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGGAT TTGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCTCT CATGGTGACT	Cucumis melo genomic chromosome, chr_9	833	833	100%	0	99.14%	LN713263.1
6	805483	orange			>805483 CTCTCCTTGGTTTCTTCATGTGACAATTAGGAATAATTTATC TGTAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTT GTATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAA AATGGAACTGCAAGAAATTCAGGAGAACATTCGAAGTCAT CGAAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTA GTGGACATTTTGCGTAGTAGTACGGAATATTCTCATGAACT GATTGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGT GTCCAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAA AGCCGTCATTTGGGGGGACCACTGCCAAGTATTAGCATTAT TTTTCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGG ATTTGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCT CTCATGGTGACTTGATGGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	869	869	99%	0	99.38%	LN713263.1
7	190454	white			>190454 CTCCTTGGTTTCTTCATGTGACAATTAGGAATAATTTATCTG TAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTTGT ATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAAAA TGGAACTGCAAGAAATTCAGGAGAACATTCGAAGTCGTCG	Cucumis melo genomic chromosome, chr_9	878	878	100%	0	99.79%	LN713263.1

					AAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTAGTG GACATTTTGCGTAGTAGTACGGACTATTCTCATGAACTGAT TGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGTGTC CAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAAAGC CGTCATTTGGGGGGACCACTGCCAAGTATTAGCATTATTTT TCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGGATT TGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCTCTC ATGGTGACTTGATGGGTTTTGTTGA							
8	805452	white			>805452 CTTGGTTTCTTCATGTGACAATTAGGAATAATTTATCTGTAA ATTAAATGTTAACTTAACATGATTTTATGCAGTTTTTGTATC ATAGAGGGACCGGAAACAGTACAAGATTTTGCAAAAATGG AACTGCAAGAAATTCAGGAGAACATTCGAAGTCGTCGAAA CAAAATTTTCTTGCATATGGAAGAGGTGAGACTTAGTGGAC ATTTTGCGTAGTAGTACGGACTATTCTCATGAACTGATTGA TTATTCGCGCATATGAAATTTTAAGTTTTTAGATGTGTCCAA GATTTCGTTACCTTGAAAAATCCTTACCCAGCCAAAGCCGT CATTTGGGGGGACCACTGCCAAGTATTAGCATTATTTTTCT GTGATGAGAGTGATAAATATGTGTCAGACACTTGGATTTGG GCTATTGATCCTTCTTCATCGTTCTCTATCAAATCTCTCATG GTGACTTGATGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	867	867	100%	0	99.58%	LN713263.1
9	173184	white			>173184 TCTCCTTGGTTTCTTCATGTGACAATTAGGAATAATTTATCT GTAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTTG TATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAAA ATGGAACTGCAAGAAATTCAGGAGAACATTCGAAGTCGTC GAAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTAGT GGACATTTTGCGTAGTAGTACGGACTATTCTCATGAACTGA TTGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGTGT CCAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAAAG CCGTCATTTGGGGGGACCACTGCCAAGTATTAGCATTATTT	Cucumis melo genomic chromosome, chr_9	874	874	100%	0	99.58%	LN713263.1

					TTCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGGAT TTGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCTCT CATGGTGACTTGATGGTTTTGTTGA						
10	903200	cream-white			>903200 TCTCCTTGGTTTCTTCATGTGACAATTAGGAATAATTTATCT GTAAATTAAATGTTAACTTAACATGATTTTATGCAGTTTTTG TATCATAGAGGGACCGGAAACAGTACAAGATTTTGCAAAA ATGGAACTGCAAGAAATTCAGGAGAACATTCGAAGTCGTC GAAACAAAATTTTCTTGCATATGGAAGAGGTGAGACTTAGT GGACATTTTGCGTAGTAGTACGGACTATTCTCATGAACTGA TTGATTATTCGCGCATATGAAATTTTAAGTTTTTAGATGTGT CCAAGATTTCGTTACCTTGAAAAATCCTTACCCAGCCAAAG CCGTCATTTGGGGGGACCACTGCCAAGTATTAGCATTATTT TTCTGTGATGAGAGTGATAAATATGTGTCAGACACTTGGAT TTGGGCTATTGATCCTTCTTCATCGTTCTCTATCAAATCTCT CATGGTGACTTGATGGTTTTGTTGA	Cucumis melo genomic chromosome, chr_9	874	874	100%	0	99.58%	LN713263.1
11	903211	cream-white			>903211 TTCTTCATGTGACAATTAGGAATAATTTATCTGTAAATTAA ATGTTAACTTAACATGATTTTATGCAGTTTTTGTATCATAGA GGGACCGGAAACAGTACAAGATTTTGCAAAAATGGAACTG CAAGAAATTCAGGAGAACATTCGAAGTCGTCGAAACAAAA TTTTCTTGCATATGGAAGAGGTGAGACTTAGTGGACATTTT GCGTAGTAGTACGGACTATTCTCATGAACTGATTGATTATT CGCGCATATGAAATTTTAAGTTTTTAGATGTGTCCAAGATT TCGTTACCTTGAAAAATCCTTACCCAGCCAAAGCCGTCATT TGGGGGGACCACTGCCAAGTATTAGCATTATTTTTCTGTGA TGAGAGTGATAAATATGTGTCAGACACTTGGATTTGGGCTA TTGATCCTTCTTCATCGTTCTCTATCAAATCTCTCATGGTGA CTTGATGGGTTTTGTT	Cucumis melo genomic chromosome, chr_9	863	863	100%	0	100.00%	LN713263.1