

Table S1. Some ampelographic characteristics and original collection locations of Kara grape accessions used in this study

List No	Cultivar Name	Population (region)-Location (city/town/village)	Cluster Form	Berry Form	Berry Color	Flavor	Seed no.	Ripening
1	Kara Üzüm	Mediterranean-Adana/Feke/Gökçeli	Cylindrical	Elliptic	Black	Sweet	1-2	Late August
2	Dingil Kara	Mediterranean-Antalya/Akseki/Dikmen	Cylindrical	Round	Black	Very Sweet	2	Late September
3	Deli Kara	Marmara-Balıkesir/Kepsut/Merkez	Conical	Round	Black	Sweet	3	Early September
4	Yumuşak Kara	Marmara-Bilecik/Söğüt/Merkez	Conical	Ellipsoidal	Black	Sweet	1-3	Late September
5	Kokulu Kara	Marmara-Bilecik/Söğüt/Küre	Conical	Ellipsoidal	Black	Sweet	1-2	Early October
6	Beyaz Saplı Kara	Marmara-Bilecik/Söğüt/Merkez	Conical	Ellipsoidal	Black	Sweet	1-2	Late September
7	Tombak Kara	Black Sea-Bolu/Seben/Kozyaka	Conical	Round	Black	Sweet	3	Late September
8	Tongur Kara	Black Sea-Bolu/Göynük/Himmetoğlu	Cylindrical	Yuvarlak	Black	Sweet	2	Late September
9	Aşıkara Sultaniyesi	Aegean-Denizli/Buldan/Yenice	Conical	Ellipsoidal	Black	Sour	1-2	Late July
10	Ekşi Kara	Aegean-Denizli/Acıpayam/Yeşilyuva	Cylindrical	Elliptic	Black	Neutral	2-4	Mid-September
11	Eski Kara	Aegean-Denizli/Çal/İsabey	Conical	Round	Black	Sweet	1-2	Mid-August

12	Siyah Üzüm	East Anatolia- Diyarbakır/Ergani/Bademli	Conical	Elliptic	Black	Sweet	2-3	Late July
13	Bulgar Karası	Marmara- Edirne/Uzunköprü/ Kırcasalih	Conical	Elliptic	Black	Sweet	2-3	Late September
14	Geç Kara	Black Sea- Giresun/Merkez/Kayadibi	Conical	Elliptic	Black	Neutral	1-3	Late September
15	Kara Üzüm	Black Sea- Gümüşhane/Merkez/-	Cylindrical	Round	Black	Sweet	2	Late October
16	Kara Üzüm	Mediterranean- Hatay/Reyhanlı/Merkez	Conical	Ellipsoidal	Black	Sweet	2-3	Mid-August
17	Siyah Üzüm	Mediterranean- Hatay/İtınözü/Merkez	Conical	Elliptic	Black	Kokulu	2-3	Late August
18	Acı Kara	Mediterranean- Isparta/Merkez/Çünür	Conical	Round	Black	Sweet	2-3	Late September
19	Kel Kara	Mediterranean- İçel/Merkez/Musalı	Cylindrical	Round	Black	Sweet	1-2	Early August
20	Pat Kara	Mediterranean- İçel/Merkez/Musalı	Cylindrical	Round	Black	Neutral	2-3	Late August
21	Takkara	Mediterranean- İçel/Gülnar/Sarıkavak	Conical	Ellipsoidal	Black	Neutral	2	Late August
22	Deli Takkara	Mediterranean- İçel/Gülnar/Sarıkavak	Conical	Round	Black	Neutral	3-4	Late September
23	Kara Üzüm	Aegean- İzmir/Ödemiş/Kaymakçı	Cylindrical	Round	Black	Sweet	2	Late June
24	Sıkkara	Aegean- İzmir/Ödemiş/Kaymakçı	Conical	Round	Black	Sweet	1	Early July

25	Kara Üzüm	Black Sea-Kastamonu/Tosya/Çiftel	Conical	Round	Black	Sweet	1-3	Mid-September
26	Kara Üzüm	Marmara-Kırklareli/Merkez	Conical	Round	Black	Sweet	3-4	Late September
27	Miri Kara	Marmara-Kırklareli/Merkez	Conical	Round	Black	Sweet	2	Early August
28	İyi Bağ Karası	Marmara-Kocaeli/Gebze/Tavşanlı	Conical	Elliptic	Black	Sweet	1-2	Mid-September
29	Siyah Üzüm	Central Anatolia-Konya/Hadim/Yağcı	Cylindrical	Round	Black	Sweet	2	Late September
30	Yerli Siyah	Central Anatolia-Konya/Karaman/Pınarbaşı	Cylindrical	Ellipsoidal	Black	Sweet	1-2	Late September
31	Siyah Üzüm	East Anatolia-Malatya/Arapkir/Budak	Conical	Ellipsoidal	Black	Sweet	3-4	Late September
32	Siyah Üzüm	East Anatolia-Mardin/Savur/Gölbaşı	Conical	Ellipsoidal	Black	Sweet	2-3	Mid-September
33	Sofra Karası	Aegean-Muğla/Ula/Merkez	Winged Conical	Silindirik	Black	Neutral	1-3	Early October
34	Yerli Kara	Aegean-Muğla/Ula/Merkez	Cylindrical	Round	Black	Sweet	2	Early August
35	Aydın Karası	Aegean-Muğla/Ula/Merkez	Winged Conical	Round	Black	Sweet	2	Late October
36	Katı Kara	Aegean-Muğla/Ula/Merkez	Conical	Round	Black	Neutral	1-3	Mid-October
37	Kayseri Karası	Central Anatolia-Nevşehir	Conical	Ellipsoidal	Black	Sweet	1-3	Mid-September
38	Katikara	Black Sea-Ordu/Merkez/Karacaömer	Conical	Round	Black	Sweet	1-2	Mid-September

39	Katikara	Black Sea- Ordu/Merkez/Karacaömer	Conical	Round	Black	Neutra l	1-2	Mid- September
40	Kozan Karası	Marmara- Sakarya/Geyve /Umurbey	Conical	Round	Black	Sweet	3	Early September
41	Yerli Kara	Marmara- Sakarya/Geyve /Umurbey	Cylindrical	Round	Black	Sweet	2	Mid- September
42	Siyah Üzüm	Black Sea- Samsun/Vezirköprü/ Kızılcaören	Conical	Round	Black	Sweet	2-4	Early October
43	Siyah Üzüm	Black Sea- Sinop/Gerze/Kabanlar	Conical	Ellipsoidal	Black	Neutra l	3	Early October
44	Siyah Üzüm	Black Sea- Sinop/Gerze/Kabanlar	Cylindrical	Round	Black	Neutra l	2-3	Mid- September
45	Patlak Kara	Central Anatolia- Sivas/Gemerek/Çepni	Cylindrical	Round	Black	Sweet	2-3	Mid-October
46	Ağustos Karası	Marmara - Tekirdağ/Şarköy/Çınarlı	Conical	Ellipsoidal	Black	Sweet	1-3	Early September
47	Siyah Üzüm	Central Anatolia - Yozgat/Merkez	Conical	Ellipsoidal	Black	Sweet	1-4	Early September
48	Ekşi Kara	Central Anatolia - Yozgat/Merkez/ Salmanfakılı	Conical	Ellipsoidal	Black	Neutra l	2-3	Mid- September
49	Kara Üzüm	Black Sea- Zonguldak/Sarfranbolu/ Yazı	Conical	Ellipsoidal	Black	Sweet	2	Early October