

Supplementary Table 1, IDs shown the details of clustering.

AnclId	Desc1	Desc2	Branch Length 1	Branch Length 2
65,	Boumerdes_41,	Boumerdes_42,	0.0060263800,	0.0060354000
64,	65,	Boumerdes_36,	0.0029957500,	0.0120690000
66,	Boumerdes_31,	Boumerdes_32,	0.0090308700,	0.0029979200
67,	64,	66,	0.0000000000,	0.0000000000
68,	67,	Medea_11,	0.0000000000,	0.0151077000
69,	68,	101-144923_rootstock_clone_Ukraine,	0.0030077700,	0.0030077700
72,	69,	Alger_53,	0.0029961300,	0.0150796000
74,	72,	RC-5145_Rcatiteli_Ukraine,	0.0000000000,	0.0029902200
70,	41B-3721_rootstock_clone_Ukraine,	55_Poland,	0.0151350000,	0.0121770000
71,	CS-143141_Cabernet_Sauvignon_Ukraine,	56_Poland,	0.0120842000,	0.0029881900
73,	70,	71,	0.0029269900,	0.0030012200
75,	74,	73,	0.0000000000,	0.0000000000
62,	R-13101_Riesling_Ukraine,	R-6846_Riesling_Ukraine,	0.0029854200,	0.0060271100
63,	R-2071_Riesling_Ukraine,	62,	0.0121532000,	0.0029353100
76,	75,	63,	0.0000000000,	0.0091339400
86,	48_Poland,	49_Poland,	0.0000000000,	0.0030106800
78,	12_Poland,	45_Poland,	0.0000000000,	0.0090785500
79,	41_Poland,	44_Poland,	0.0030096500,	0.0000000000
80,	13_Poland,	79,	0.0000000000,	0.0000000000
81,	78,	80,	0.0030096500,	0.0000000000
85,	86,	81,	0.0000000000,	0.0030025100
84,	43_Poland,	85,	0.0121746000,	0.0000000000
83,	47_Poland,	84,	0.0029990600,	0.0000000000
82,	46_Poland,	83,	0.0030029300,	0.0000000000
77,	76,	82,	0.0060070300,	0.0030189800
61,	77,	42_Poland,	0.0127290000,	0.0313408000
55,	ZA505-3N_Italy,	ZA505-1N_Italy,	0.0000000000,	0.0213086000
57,	55,	ZA505-2N_Italy,	0.0000000000,	0.0030034700
59,	57,	SK30_Slovakia,	0.0000000000,	0.0090659600
58,	59,	RC-6054_Rcatiteli_Ukraine,	0.0030095000,	0.0060310100

51, SK01_Slovakia, SK13_Slovakia, 0.0090502400, 0.0000000000
52, 51, MOLA3x3_Italy, 0.0000000000, 0.0090456100
53, 52, CS-22103_Cabernet_Sauvignon_Ukraine, 0.0000000000, 0.0060174000
45, ZA505-9A_Italy, ZA505-2A_Italy, 0.0000000000, 0.0000000000
46, ZA505-3A_Italy, 45, 0.0000000000, 0.0000000000
47, ZA505-5A_Italy, 46, 0.0000000000, 0.0000000000
48, ZA505-8A_Italy, 47, 0.0030061100, 0.0000000000
49, BE(FA59)1A_Italy, 48, 0.0000000000, 0.0030026500
50, 5BB-9191_rootstock_clone_Ukraine, 49, 0.0030414200, 0.0060333600
54, 53, 50, 0.0000000000, 0.0029937900
56, 58, 54, 0.0030033100, 0.0000000000
60, Boumerdes_33, 56, 0.0000000000, 0.0121234000
87, 61, 60, 0.3683410000, 0.3689190000