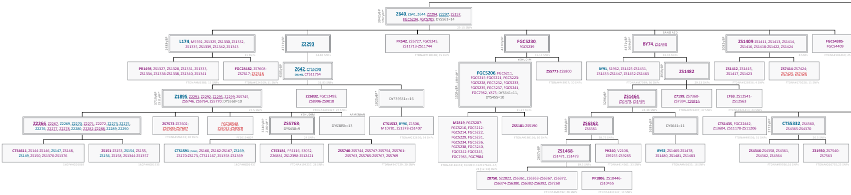
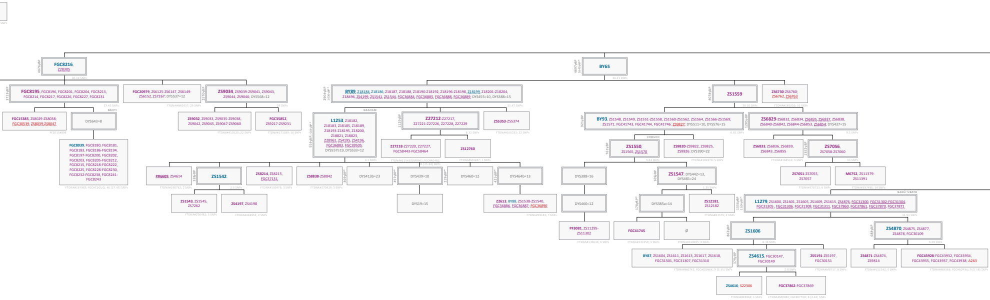
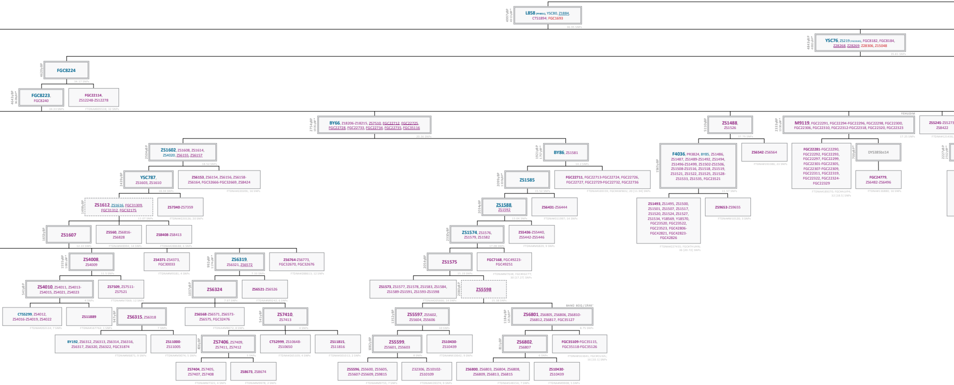
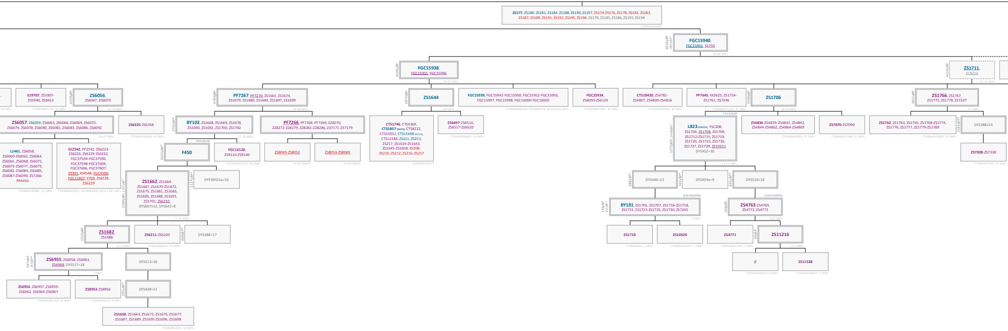
J1 PHYLOGENETIC TREE v234

🟦 Available 🟪 Unavailable 🟥 Low quality ⬜ Unstable --- Poor coverage __ No coverage

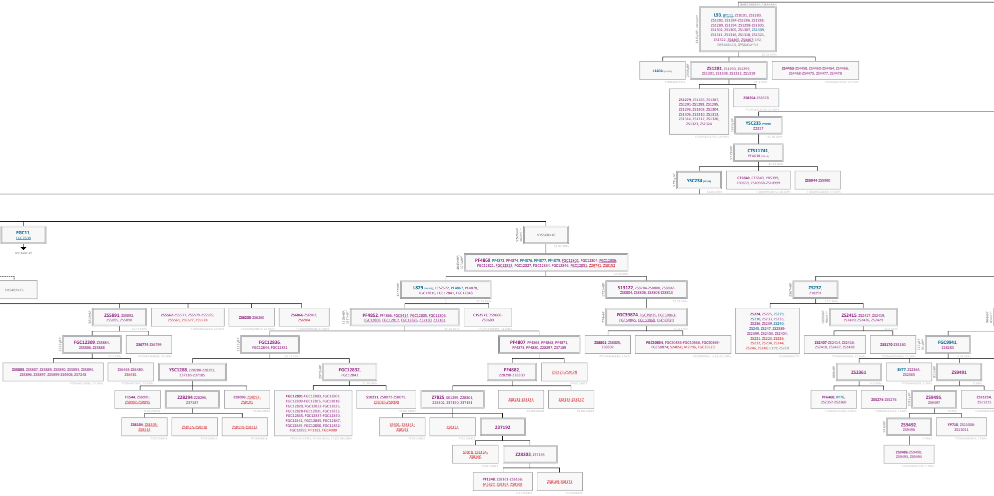

3942yBP
3957yBP*
Z640, Z641, Z644, Z2294, Z2297, ZS157, FGC5204, FGC5205; DYS561=14
29.15 SNPs
1488yBP
L174, M5592, ZS1325, ZS1330, ZS1332, ZS1335, ZS1339, ZS1342, ZS1343
11 SNPs
4711yBP
Z2293
34.83 SNPs
PR542, Z26727, FGC9245, ZS11713-ZS11744
FTDNA#M10388; 35 SNPs
4210yBP
FGC5230, FGC5239
31.13 SNPs
BANÜ AZD
4471yBP
2606yBP*
BY74, ZS1448
33.06 SNPs
1082yBP
ZS1409-ZS1411, ZS1413, ZS1414, ZS1416, ZS1418-ZS1422, ZS1424
8 SNPs
FGC54385-FGC54409
FTDNA#104460; 25
PR1498, ZS1327, ZS1328, ZS1331, ZS1333, ZS1334, ZS1336-ZS1338, ZS1340, ZS1341
FTDNA#M6386; 11 SNPs
FGC28482, ZS7608-ZS7617; ZS7618
FTDNA#224569; 11 SNPs
4305yBP
Z642, CTS5799 (Z2296), CTS11754
31.83 SNPs
YEHUDIM
1524yBP; 1884yBP*
FGC5206, FGC5211, FGC5215-FGC5221, FGC5223-FGC5228, FGC5232, FGC5233, FGC5235, FGC5237, FGC5241, FGC7982, Y875; DYS641=11, DYS455=10
11.27 SNPs
ZS5771-ZS5800
FTDNA#M8917; 30 SNPs
BY91, S1962, ZS1425-ZS1431, ZS1433-ZS1447, ZS1452-ZS1463
FTDNA#M7999; 36 SNPs
3939yBP
ZS1482
29.13 SNPs
ZS1412, ZS1415, ZS1417, ZS1423
FTDNA#328936; 4 SNPs
ZS7414-ZS7424; ZS7425, ZS7426
FTDNA#175028; 11 SNPs
3719yBP
2311yBP*
Z1895, Z2291, Z2292, Z2295, Z2299, ZS5745, ZS5746, ZS5764, ZS5770; DYS568=10
27.5 SNPs
Z26832, FGC12498, ZS8996-ZS9018
FTDNA#405327; 25 SNPs
1925yBP*
DYF395S1a=16
3296yBP
ZS1464, ZS1479, ZS1484
24.38 SNPs
Z7199, ZS7360-ZS7394, ZS9816
FTDNA#M9497; 37 SNPs
L769, ZS12541-ZS12563
FTDNA#221413; 24 SNPs
Z2266, Z2267, Z2269, Z2270, Z2271, Z2272, Z2273, Z2275, Z2276, Z2277, Z2278, Z2280, Z2282-Z2288, Z2289, Z2290
ZS7573-ZS7602; ZS7603-ZS7607
FTDNA#M6463; 30 SNPs
FGC30548, ZS8022-ZS8028
PF2015#807
YEHUDIM
ARMENIAN
3246yBP
2166yBP*
ZS5768; DYS438=9
24 SNPs
DYS385b=13
CTS1532, BY90, Z1506, M10781, ZS1378-ZS1407
FTDNA#232850; 34 SNPs
M2819, FGC5207-FGC5210, FGC5212-FGC5214, FGC5222, FGC5229, FGC5231, FGC5234, FGC5236, FGC5238, FGC5240, FGC5242-FGC5245, FGC7983, FGC7984
FTDNA#116363; FGC#EE1452157691L-1A; 21 [12.53] SNPs
ZS5181-ZS5190
FTDNA#180166; 10 SNPs
3888yBP
ZS6362, ZS6381
28.75 SNPs
1689yBP
DYS641=11
CTS1435, FGC22442, Z13604, ZS11178-ZS11206
FTDNA#49536; 31 SNPs
2772yBP
CTS5332, ZS4360, ZS4365-ZS4370
20.5 SNPs
CTS4611, ZS144-ZS146, ZS147, ZS148, ZS149, ZS150, ZS1370-ZS1376
1kGP#HG01069
ZS151-ZS153, ZS154, ZS155, ZS156, ZS158, ZS1344-ZS1357
1kGP#HG01935
CTS1591 (ZS168), ZS160, ZS162-ZS167, ZS169, ZS170-ZS173, CTS11167, ZS1358-ZS1369
1kGP#HG01437
CTS3184, PF4116, S3052, Z26884, ZS12398-ZS12421
FTDNA#194237; 28 SNPs
ZS5740-ZS5744, ZS5747-ZS5754, ZS5761-ZS5763, ZS5765-ZS5767, ZS5769
FTDNA#347529; 20 SNPs
2637yBP
ZS1468-ZS1471, ZS1473
19.5 SNPs
PH240, V2108, ZS9255-ZS9285
FTDNA#414561; 33 SNPs
BY92, ZS1465-ZS1478, ZS1480, ZS1481, ZS1483
FTDNA#M6635; 18 SNPs
ZS4346-ZS4358, ZS4361, ZS4362, ZS4364
FTDNA#99936;16 SNPs
Z31930, ZS7540-ZS7563
FTDNA#266735;25 SNPs
Z8750, S22822, ZS6361, ZS6363-ZS6367, ZS6372, ZS6374-ZS6380, ZS6382-ZS6392, ZS7268
FTDNA#M8592; 28 SNPs
PF1806, ZS10446-ZS10455
FTDNA#433147; 11 SNPs

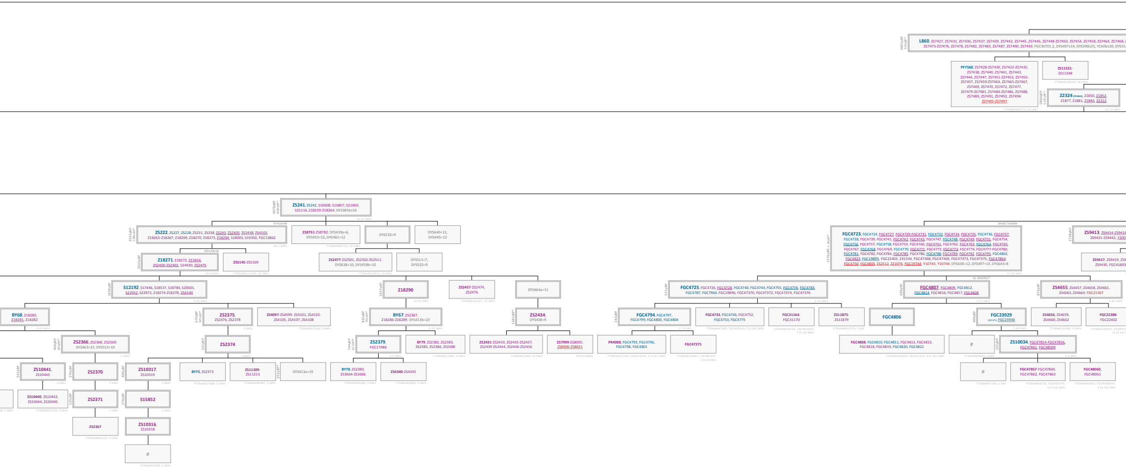

SNPs
4076yBP
FGC8216, Z28305
30.14 SNPs
3713yBP
FGC8195, FGC8196, FGC8201, FGC8204, FGC8213, FGC8214, FGC8217, FGC8226, FGC8227, FGC8231
27.45 SNPs
FGC20979, ZS6125-ZS6147, ZS6149-ZS6152, ZS7267; DYS537=12
FTDNA#N65017; 29 SNPs
2570yBP
ZS9034, ZS9039-ZS9041, ZS9043, ZS9044, ZS9046; DYS568=12
19 SNPs
FGC15385, ZS8029-ZS8038; FGC30539, ZS8039-ZS8047
PF2015#808
RACITI
DYS643=8
FGC8039, FGC8180, FGC8181, FGC8183, FGC8186-FGC8194, FGC8197-FGC8200, FGC8202, FGC8203, FGC8205-FGC8212, FGC8215, FGC8218-FGC8222, FGC8225, FGC8228-FGC8230, FGC8232-FGC8238, FGC8241-FGC8243
FTDNA#197965; FGC#C2GUQ; 46 [27.45] SNPs
ZS9032, ZS9033, ZS9035-ZS9038, ZS9042, ZS9045, ZS9047-ZS9060
FTDNA#410123; 22 SNPs
FGC35852, ZS9217-ZS9231
FTDNA#173389; 16 SNPs
2904yBP
1036yBP*
BY89, Z18184, Z18186, Z18187, Z18188, Z18190-Z18192, Z18196-Z18198, Z18199, Z18201-Z18204, Z18496, ZS4199, ZS1541, ZS1544, FGC36884, FGC36885, FGC36888, FGC36889; DYS455=10, DYS388=15
21.47 SNPs
GRAHAM
554yBP; 543yBP*
L1253, Z18182, Z18183, Z18185, Z18189, Z18193-Z18195, Z18200, Z18821, Z18823, Z28961, ZS4195, ZS4196, FGC36883, FGC39505; DYS557≥19, DYS533=12
4.1 SNPs
1125yBP
Z27212-Z27217, Z27221-Z27226, Z27228, Z27229
8.32 SNPs
ZS5353-ZS5374
FTDNA#166233; 22 SNPs
Z27218-Z27220, Z27227, FGC58443-FGC58464
FTDNA#215410/M8961;FGC#RE482; 6 [15.64] SNPs
ZS12760
FTDNA#M4287; 1 SNPs
PR6609, ZS4614
FTDNA#260732; 2 SNPs
338yBP
ZS1542
2.5 SNPs
ZS8214, ZS8215, FGC37131
FTDNA#130476; 3 SNPs
ZS8838-ZS8842
FTDNA#170429; 5 SNPs
469yBP*
DYS413b=23
457yBP*
DYS439=10
219yBP*
DYS460=12
421yBP*
DYS464b=13
ZS1543, ZS1545, ZS7262
FTDNA#256481; 3 SNPs
ZS4197, ZS4198
FTDNA#268952; 2 SNPs
DYS19=15
Z2613, BY88, ZS1538-ZS1540, FGC36886, FGC36887; FGC36890
FTDNA#59183; 7 SNPs
4897yBP
1640yBP*
BY65
36.21 SNPs
4078yBP
ZS1559
30.16 SNPs
ZS6730-ZS6760; ZS6762, ZS6763
FTDNA#185056; 31 SNPs
921yBP
BY93, ZS1548, ZS1549, ZS1551-ZS1558, ZS1560-ZS1562, ZS1564, ZS1566-ZS1569, ZS1571, FGC41743, FGC41744, FGC41746; ZS9827; DYS511=10, DYS576=15
6.81 SNPs
1285yBP
ZS6829-ZS6832, ZS6834, ZS6835, ZS6837, ZS6838, ZS6840-ZS6842, ZS6844-ZS6853, ZS6854; DYS437=15
9.5 SNPs
CROUCH
761yBP
ZS1550, ZS1565, ZS1570
5.63 SNPs
ZS9820-ZS9822, ZS9825, ZS9826; DYS390=22
FTDNA#181979; 5 SNPs
ZS6833, ZS6836, ZS6839, ZS6843, ZS6855
FTDNA#162513; 5 SNPs
1352yBP
ZS7056, ZS7058-ZS7060
10 SNPs
DYS388=16
169yBP
ZS1547; DYS442=13, DYS481=24
1.25 SNPs
ZS7051-ZS7055, ZS7057
FTDNA#370723; 6 SNPs
M6752, ZS11379-ZS11391
FTDNA#397496; 14 SNPs
DYS460=12
178yBP*
DYS385a=14
ZS12181, ZS12182
FTDNA#83579; 2 SNPs
BANŪ 'UBAYD
1556yBP
1104yBP*
L1279, ZS1600, ZS1601, ZS1605, ZS1609, ZS1615, ZS4876, FGC31300, FGC31302-FGC31304, FGC31305, FGC31306, FGC31308, FGC31311, FGC37860, FGC37861, FGC37870, FGC37871
11.51 SNPs
PF3081, ZS11295-ZS11302
FTDNA#139639; 9 SNPs
FGC41745
FTDNA#141559; 1 SNPs
Ø
FTDNA#418205; 0 SNPs
863yBP
ZS1606
6.38 SNPs
688yBP
ZS4870, ZS4875, ZS4877, ZS4878, FGC30109
5.09 SNPs
BY87, ZS1604, ZS1611, ZS1613, ZS1617, ZS1618, FGC31301, FGC31307, FGC31310
FTDNA#M6743; FGC#GDNKK; 9 [5.35] SNPs
379yBP
ZS4615, FGC30147, FGC30149
2.8 SNPs
ZS5191-ZS5197, FGC30151
FTDNA#M9717; 8 SNPs
ZS4871-ZS4874, ZS9814
FTDNA#151542; 5 SNPs
FGC43928-FGC43932, FGC43934, FGC43935, FGC43937, FGC43938; A263
FTDNA#M9369; FGC#RDP3U; 9 [5.18] SNPs
ZS4616; S22306
FTDNA#M8904; 1 SNPs
FGC37862-FGC37869
FTDNA#M9084; FGC#ETT6D; 8 [4.61] SNPs

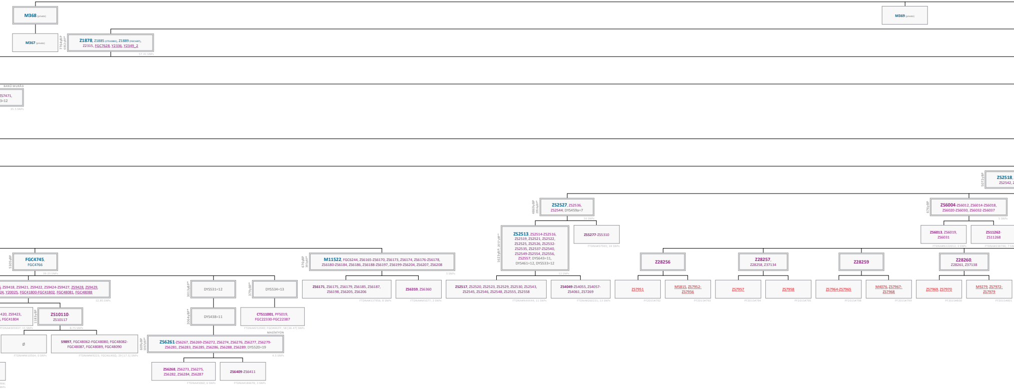

4997ybP 4313ybP*
L858 (PF4851), YSC80, Z1884, CTS1894; FGC1693
36.95 SNPs
4843ybP 4002ybP*
YSC76, ZS219 (FGC8185), FGC8182, FGC8184, Z28268, Z28269; Z28306, Z15048
35.81 SNPs
4620ybP
FGC8224
34.17 SNPs
4643ybP 3628ybP*
FGC8223, FGC8240
34.33 SNPs
FGC22114, ZS12248-ZS12278
FTDNA#B95538; 32 SNPs
2754ybP 1935ybP*
BY66, Z18206-Z18215, ZS7510, FGC22712, FGC22725, FGC22728, FGC22733, FGC22734, FGC22735, FGC35116
20.36 SNPs
2504ybP
ZS1602, ZS1608, ZS1614, ZS4020, ZS6155, ZS6157
18.52 SNPs
2439ybP
YSC787, ZS1603, ZS1610
18.04 SNPs
ZS6153, ZS6154, ZS6156, ZS6158-ZS6164, FGC32666-FGC32669, ZS8424
FTDNA#220206; 16 SNPs
1498ybP
ZS1612, ZS1616, FGC31309, FGC31312, FGC32175
11.07 SNPs
ZS7340-ZS7359
FTDNA#220126; 20 SNPs
1653ybP
ZS1607
12.22 SNPs
ZS560, ZS6816-ZS6828
FTDNA#M8994; 14 SNPs
ZS8408-ZS8413
FTDNA#288688; 6 SNPs
1555ybP 1081ybP*
ZS4008, ZS4009
11.5 SNPs
ZS4371-ZS4373, FGC30033
FTDNA#M9181; 4 SNPs
992ybP 1174ybP*
ZS6319, ZS6321, ZS6572
7.33 SNPs
ZS6764-ZS6773, FGC32670, FGC32676
FTDNA#288613; 12 SNPs
541ybP
ZS4010, ZS4011, ZS4013-ZS4015, ZS4021, ZS4023
4 SNPs
ZS7509, ZS7511-ZS7521
FTDNA#M7069; 12 SNPs
1037ybP
ZS6324
7.67 SNPs
ZS6521-ZS6526
FTDNA#M9242; 6 SNPs
CTS5299, ZS4012, ZS4016-ZS4019, ZS4022
FTDNA#202134; 7 SNPs
ZS11889
FTDNA#167762; 1 SNPs
947ybP
ZS6315, ZS6318
7 SNPs
ZS6568-ZS6571, ZS6573-ZS6575, FGC32476
FTDNA#M8672; 8 SNPs
541ybP
ZS7410, ZS7413
4 SNPs
BY192, ZS6312, ZS6313, ZS6314, ZS6316, ZS6317, ZS6320, ZS6322, FGC31874
FTDNA#M6871; 9 SNPs
ZS11000-ZS11005
FTDNA#M9074; 5 SNPs
406ybP
ZS7406, ZS7409, ZS7411, ZS7412
3 SNPs
CTS2999, ZS10648-ZS10650
FTDNA#265109; 4 SNPs
ZS11815, ZS11816
FTDNA#301013; 2 SNPs
ZS7404, ZS7405, ZS7407, ZS7408
FTDNA#M7321; 4 SNPs
ZS8673, ZS8674
FTDNA#M9978; 2 SNPs
1921ybP 1757ybP*
BY86, ZS1581
14.2 SNPs
2099ybP 1339ybP*
ZS1585
15.52 SNPs
FGC22711, FGC22713-FGC22724, FGC22726, FGC22727, FGC22729-FGC22732, FGC22736
FTDNA#169159; FGC#AWWJU; 20 [11.94] SNPs
2034ybP
ZS1588, ZS1592
15.04 SNPs
ZS6431-ZS6444
FTDNA#311997; 14 SNPs
2310ybP
ZS1574, ZS1576, ZS1579, ZS1582
17.08 SNPs
ZS5436-ZS5440, ZS5442-ZS5446
FTDNA#M6829; 9 SNPs
2054ybP
ZS1575
15.19 SNPs
FGC7168, FGC49223-FGC49251
FTDNA#M7638; FGC#EGCTT; 30 [17.27] SNPs
ZS1573, ZS1577, ZS1578, ZS1583, ZS1584, ZS1589-ZS1591, ZS1593-ZS1598
FTDNA#205666; 14 SNPs
2080ybP
ZS5598
15.38 SNPs
BANŪ BŪQ / ZĀRE'
1352ybP
ZS5597, ZS5602, ZS5604, ZS5606
10 SNPs
1184ybP 1253ybP*
ZS6801, ZS6805, ZS6806, ZS6810-ZS6812, ZS6817, FGC35127
8.75 SNPs
1082ybP
ZS5599, ZS5601, ZS5603
8 SNPs
ZS10430-ZS10439
FTDNA#M10642; 9 SNPs
811ybP
ZS6802, ZS6807
6 SNPs
FGC35109-FGC35115, FGC35118-FGC35126
FTDNA#163641; FGC#CU3ZL; 16 [10.1] SNPs
ZS5596, ZS5600, ZS5605, ZS5607-ZS5609, ZS9815
FTDNA#M9755; 7 SNPs
Z32306, ZS10102-ZS10109
FTDNA#439374; 9 SNPs
ZS6800, ZS6803, ZS6804, ZS6808, ZS6809, ZS6813, ZS6815
FTDNA#148156; 7 SNPs
ZS10430-ZS10439
FTDNA#M9908; 5 SNPs
5110ybP
ZS1488, ZS1526
37.79 SNPs
1565ybP
F4036, PR3824, BY85, ZS1486, ZS1487, ZS1489-ZS1492, ZS1494, ZS1496-ZS1499, ZS1502-ZS1506, ZS1508-ZS1516, ZS1518, ZS1519, ZS1521, ZS1522, ZS1525, ZS1528-ZS1533, ZS1535, FGC23521
11.57 SNPs
ZS6542-ZS6564
FTDNA#193386; 23 SNPs
ZS1493, ZS1495, ZS1500, ZS1501, ZS1507, ZS1517, ZS1520, ZS1524, ZS1527, ZS1534, Y18569, Y18570, FGC23520, FGC23522, FGC23523, FGC42806-FGC42821, FGC42823-FGC42826
FTDNA#227455; FGC#7HUHN; 36 [20.72] SNPs
ZS9653-ZS9655
FTDNA#M10120; 3 SNPs
YEHUDIM
2333ybP 1330ybP*
M9119, FGC22291, FGC22294-FGC22296, FGC22298, FGC22300, FGC22306, FGC22310, FGC22312-FGC22318, FGC22320, FGC22323
17.25 SNPs
FGC22281-FGC22290, FGC22292, FGC22293, FGC22297, FGC22299, FGC22301-FGC22305, FGC22307-FGC22309, FGC22311, FGC22319, FGC22322, FGC22324-FGC22329
FTDNA#189370; FGC#ALVP4; 32 [18.5] SNPs
700ybP*
DYS385b≤14
FGC24779, ZS6482-ZS6496
FTDNA#136880; 16 SNPs
ZS5245-ZS5273
ZS8422
2227ybP 2512ybP*

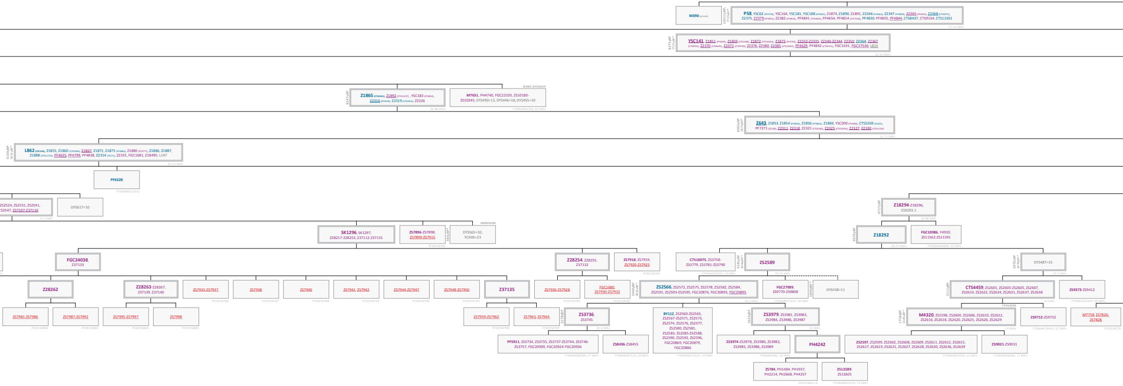


ZS177, ZS180, ZS181, ZS184, ZS188, ZS190, ZS197; ZS174-ZS176, ZS178, ZS182, ZS183, ZS187, ZS189, ZS191, ZS192, ZS195, ZS196; ZS179, ZS185, ZS186, ZS193, ZS194
1kGP#HG01686
4610yBP
3597yBP*
FGC15940, FGC15941, S1732
34.09 SNPs
4599yBP
FGC15938, FGC15951, FGC15996
34.01 SNPs
4214yBP
ZS1711, Z18216
31.16 SNPs
S19707, ZS5907-ZS5940, ZS8423
FTDNA#M7110; 36 SNPs
4359yBP
ZS6056, ZS6067, ZS6070
31.24 SNPs
4784yBP
PF7267, PF7270, ZS1661, ZS1674, ZS1679, ZS1680, ZS1684, ZS1697, ZS1699
35.38 SNPs
2975yBP
ZS1644
22 SNPs
FGC15939, FGC15942-FGC15950, FGC15952-FGC15995, FGC15997, FGC15998, FGC16000-FGC16003
FTDNA#N98630; FGC#MSTYX; 60 [35.81] SNPs
FGC25934, ZS6093-ZS6124
FTDNA#M7265 ; 33 SNPs
CTS10420, ZS4781-ZS4807, ZS4809-ZS4816
FTDNA#309204; 36 SNPs
PF7645, M2625, ZS1734-ZS1761, ZS7246
FTDNA#223125; 31 SNPs
3590yBP
ZS1706
26.54 SNPs
3651yBP
ZS1766, ZS1767, ZS1775, ZS1778, ZS7247
27 SNPs
ZS6057, ZS6059, ZS6063, ZS6066, ZS6069, ZS6072-ZS6074, ZS6078, ZS6080, ZS6081, ZS6083, ZS6086, ZS6092
16.47 SNPs
ZS6325-ZS6358
FTDNA#193388; 34 SNPs
3702yBP
BY102, ZS1668, ZS1669, ZS1678, ZS1690, ZS1692, ZS1700, ZS1702
27.38 SNPs
PF7266, PF7268, PF7269, Z28270, Z28272-Z28279, Z28281-Z28286, Z37171-Z37179
CTS1746, CTS4369, CTS5857 (ZS216), CTS8222, CTS10352, CTS11658 (ZS214), CTS12188, ZS211, ZS213, ZS217, ZS1619-ZS1643, ZS1645-ZS1658; ZS208-ZS210, ZS212, ZS216, ZS217
1kGP#NA20543
ZS6497-ZS6514, ZS6517-ZS6520
FTDNA#300047; 22 SNPs
YEHUDIM
1572yBP; 143yBP*
L823 (YSC212), YSC208, ZS1704, ZS1708, ZS1709, ZS1712-ZS1715, ZS1719, ZS1720, ZS1722, ZS1726, ZS1727, ZS1729, ZS10321 DYS452=30
12.25 SNPs
ZS4836-ZS4839, ZS4841, ZS4842, ZS4844-ZS4862, ZS4864-ZS4869
FTDNA#M9083; 31 SNPs
ZS7070-ZS7090
FTDNA#207386; 21 SNPs
ZS1762, ZS1763, ZS1765, ZS1768-ZS1774, ZS1776, ZS1777, ZS1779-ZS1789
FTDNA#312808; 23 SNPs
1582yBP*
DYS388≤14
ZS7308-ZS7338
FTDNA#75765; 31 SNPs
L1461, ZS6058, ZS6060-ZS6062, ZS6064, ZS6065, ZS6068, ZS6071, ZS6075-ZS6077, ZS6079, ZS6082, ZS6084, ZS6085, ZS6087-ZS6090, ZS7266; PR4452
FTDNA#190987; 21 SNPs
S12542, PF2542, ZS6223-ZS6226, ZS6229-ZS6232, FGC37594-FGC37596, FGC37598-FGC37604, FGC37606, FGC37607; Z9391, KMS48, FGC4186, FGC11837, Y709, ZS6228, ZS6229
FTDNA#246941; FGC#86ABW; 20 [11.94] SNPs
YEHUDIM
3025yBP*
F450
FGC12120, ZS9116-ZS9140
FTDNA#164225; 26 SNPs
ZS8049-ZS8052
PF2015#809
ZS8053-ZS8069
PF2015#810
1589yBP; 1077yBP*
ZS1662, ZS1664-ZS1667, ZS1670-ZS1672, ZS1675, ZS1681, ZS1683, ZS1685, ZS1688, ZS1691, ZS1701, ZS6210; DYS607≤12, DYS643=8
11.75 SNPs
2127yBP*
DYF395S1a=16
288yBP*
DYS446=13
165yBP*
DYS459a=9
835yBP*
DYS510=18
GREENSPAN
139yBP
112yBP*
BY101, ZS1705, ZS1707, ZS1716-ZS1718, ZS1721, ZS1723-ZS1725, ZS1730, ZS7245
1 SNPs
ECHEVERRÍA
169yBP
ZS4763-ZS4769, ZS4772, ZS4773
1.25 SNPs
1555yBP
ZS1682, ZS1686
11.5 SNPs
ZS6211-ZS6220
FTDNA#80262; 10 SNPs
468yBP*
DYS388=17
ZS1710
FTDNA#843; 1 SNPs
ZS10320
FTDNA#430327; 1 SNPs
ZS4771
FTDNA#267402; 1 SNPs
68yBP
ZS11216
0.5 SNPs
947yBP
355yBP*
ZS6955, ZS6958, ZS6963, ZS6968; DYS557=18
7 SNPs
DYS513=10
ø
FTDNA#236112; 0 SNPs
ZS11538
FTDNA#248641; 1 SNPs
ZS6956, ZS6957, ZS6959-ZS6962, ZS6964-ZS6967
FTDNA#383728; 10 SNPs
ZS8953-ZS8956
FTDNA#48632; 4 SNPs
295yBP*
DYS438=11
ZS1660, ZS1663, ZS1673, ZS1676, ZS1677, ZS1687, ZS1689, ZS1695 ZS1696, ZS1698
FTDNA#51961; 10 SNPs


BANŪ KINDAH / MAHRAH
3415yBP; 2445yBP*
L93, BY111, Z18101, ZS1280, ZS1282, ZS1284-ZS1286, ZS1288, ZS1289, ZS1294, ZS1298-ZS1300, ZS1302, ZS1305, ZS1307, ZS1309, ZS1311, ZS1316, ZS1318, ZS1321, ZS1322, ZS4465, ZS4467; L92, DYS446=13, DYS641≥~11
25.25 SNPs
L1404 (private)
FTDNA#M7241
2908yBP
ZS1281, ZS1290, ZS1297, ZS1301, ZS1308, ZS1312, ZS1319
21.5 SNPs
ZS4453-ZS4458, ZS4460-ZS4464, ZS4466, ZS4468-ZS4475, ZS4477, ZS4478
FTDNA#332329; 22 SNPs
ZS1279, ZS1283, ZS1287, ZS1291-ZS1293, ZS1295, ZS1296, ZS1303, ZS1304, ZS1306, ZS1310, ZS1313, ZS1314, ZS1317, ZS1320, ZS1323, ZS1324
FTDNA#279797; 18 SNPs
ZS8354-ZS8378
FTDNA#311538; 25 SNPs
5880yBP
YSC235 (PF4881)
Z2317
43.48 SNPs
5719yBP
CTS11741, PF4638 (Z2313)
42.29 SNPs
5796yBP
YSC234 (Z2329)
42.86 SNPs
CTS848, CTS849, PR5399, Z30659, ZS10968-ZS10999
FTDNA#M10672; 36 SNPs
ZS5944-ZS5990
FTDNA#302848; 47 SNPs
FGC11, FGC7638
SEE PAGE #2
DYS487=15
5269yBP; 3682yBP*
DYS568=10
38.96 SNPs
4045yBP; 3072yBP*
PF4869, PF4872, PF4874, PF4876, PF4877, PF4879, FGC12802, FGC12804, FGC12806, FGC12821, FGC12825, FGC12827, FGC12834, FGC12846, FGC12851; Z29741, ZS8152
29.91SNPs
3172yBP
L829 (PF4875), CTS2572, PF4867, PF4878, FGC12816, FGC12841, FGC12848
23.45 SNPs
1721yBP
S13122, ZS8784-ZS8800, ZS8802-ZS8804, ZS8806, ZS8808-ZS8813
12.72 SNPs
3212yBP
ZS5891, ZS5892, ZS5895, ZS5898
23.75 SNPs
ZS5562-ZS5577, ZS5579-ZS5595; ZS5561, ZS5577, ZS5578
FTDNA#292293; 32 SNPs
ZS6235-ZS6260
FTDNA#239804; 26 SNPs
ZS6866-ZS6902; ZS6904
FTDNA#M9588; 37 SNPs
3376yBP; 2817yBP*
PF4852, PF4866, FGC5414, FGC12805, FGC12806, FGC12808, FGC12817, FGC12826, Z37180, Z37181
24.96 SNPs
CTS2572, ZS9666-ZS9680
FTDNA#198996; 16 SNPs
774yBP
FGC39874, FGC39875, FGC50863-FGC50865, FGC50868, FGC50870
5.72 SNPs
2367yBP
FGC12309, ZS5884, ZS5886, ZS5888
17.5 SNPs
ZS6774-ZS6799
FTDNA#289809; 26 SNPs
3135yBP
FGC12836, FGC12844, FGC12851
23.18 SNPs
PF4807, PF4865, PF4868, PF4871, PF4873, PF4880, Z28297, Z37189
ZS8801, ZS8805, ZS8807
FTDNA#M9890; 3 SNPs
FGC50854, FGC50856-FGC50866, FGC50869-FGC50874; S24050, M2796, FGC35523
FGC#BTP8M; 14 [8.45] SNPs
ZS5885, ZS5887, ZS5889, ZS5890, ZS5893, ZS5894, ZS5896, ZS5897, ZS5899-ZS5906, ZS7248
FTDNA#119086; 17 SNPs
ZS6463-ZS6480; ZS6481
FTDNA#T1841; 18 SNPs
YSC1288, Z28288-Z28293, Z37183-Z37185
2972yBP
FGC12832, FGC12843
21.99 SNPs
PF4882, Z28298-Z28300
ZS8123-ZS8128
PF2015#817
F1544, ZS8091; ZS8092-ZS8095
PF2015#812
Z28294-Z28296, Z37187
ZS8096; ZS8097-ZS8101
PF2015#813
FGC12801-FGC12803, FGC12807, FGC12809-FGC12815, FGC12818-FGC12820, FGC12822-FGC12825, FGC12828-FGC12831, FGC12833, FGC12835, FGC12837-FGC12840, FGC12842, FGC12845, FGC12847, FGC12849, FGC12850, FGC12852-FGC12855; PF1182, FGC4900
FTDNA#118385; FGC#5Q3KA; 37 [22.08] SNPs
S10211, ZS8072-ZS8075; ZS8076-ZS8090
PF2015#811
Z7825, SK1299, Z28301, Z28302, Z37190, Z37191
ZS8131-ZS8133
PF2015#818
ZS8134-ZS8137
PF2015#819
ZS8104; ZS8105-ZS8114
PF2015#814
ZS8115-ZS8118
PF2015#815
ZS8119-ZS8122
PF2015#816
S9301, ZS8141-ZS8151
PF2015#820
ZS8153
PF2015#821
Z37192
S9918, ZS8154-ZS8160
PF2015#823
Z28303, Z37193
PF1348, ZS8161-ZS8166; M5827, ZS8167, ZS8168
PF2015#824
ZS8169-ZS8171
PF2015#825
2367yBP
ZS237, Z18291
17.5 SNPs
ZS224, ZS225, ZS229, ZS230, ZS233, ZS235, ZS236, ZS239, ZS240, ZS245, ZS247, ZS2389-ZS2399, ZS2403, ZS2404; ZS221, ZS223, ZS226, ZS232, ZS234, ZS244, ZS246, ZS248; L319; ZS220
1kGP#HG01571
1555yBP; 936yBP*
ZS2415, ZS2417, ZS2419, ZS2420, ZS2426, ZS2429
11.5 SNPs
ZS2407-ZS2414, ZS2416, ZS2418, ZS2427, ZS2428
FTDNA#N65836; 12 SNPs
ZS5170-ZS5180
FTDNA#N24493; 11 SNPs
904yBP; 804yBP*
727yBP; 781yBP*
FGC9941, Z18283
5.38 SNPs
609yBP
ZS2361
4.5 SNPs
BY77, ZS2364, ZS2365
FTDNA#48939; 3 SNPs
811yBP
ZS9491
6 SNPs
PF6460, BY76, ZS2357-ZS2360
FTDNA#271580; 6 SNPs
ZS5274-ZS5276
FTDNA#121244; 3 SNPs
1082yBP
ZS9495, ZS9497
8 SNPs
ZS11214, ZS11215
FTDNA#4019
947yBP
ZS9492, ZS9496
7 SNPs
YP710, ZS11006-ZS11011
FTDNA#384654; 7 SNPs
ZS9486-ZS9490, ZS9493, ZS9494
FTDNA#387145; 7 SNPs


4801ybP 650ybP*
L860, ZS7427, ZS7431, ZS7436, ZS7437, ZS7439, ZS7442, ZS7445, ZS7446, ZS7448-ZS7450, ZS7454, ZS7458, ZS7464, ZS7468,
ZS7473-ZS7476, ZS7478, ZS7482, ZS7483, ZS7487, ZS7490, ZS7493; FGC30701.2, DYS497≤14, DYS390≥25, YCAIIb≤20,
PF7560, ZS7428-ZS7430, ZS7432-ZS7435, ZS7438, ZS7440, ZS7441, ZS7443, ZS7444, ZS7447, ZS7451-ZS7453, ZS7455-ZS7457, ZS7459-ZS7463, ZS7465-ZS7467, ZS7469, ZS7470, ZS7472, ZS7477, ZS7479-ZS7481, ZS7484-ZS7486, ZS7488, ZS7489, ZS7491, ZS7492, ZS7494; ZS7495-ZS7497
FTDNA#204753; 43 SNPs
ZS11321-ZS11348
FTDNA#318106; 28 SNPs
5860ybP 5145ybP*
Z2324 (PF4863), Z1850, Z1852, Z1877, Z1881, Z1883, Z2312
43.33 SNPs
4878ybP 4484ybP*
ZS241, ZS242, S10608, S16807, S21060, S21116, Z18259-Z18264; DYS385b≤16
36.07 SNPs
YEHUDIM
3543ybP 2286ybP*
ZS222, ZS227, ZS228, ZS231, ZS238, ZS243, ZS2405, ZS2438, ZS4102, Z18265-Z18267, Z18269, Z18270, Z18273, Z18284, S18003, S19350, FGC13862
26.2 SNPs
ZS8751-ZS8782; DYS459a=6, DYS455=12, DYS461=12
FTDNA#282721; 32 SNPs
DYS532=9
DYS640=13, DYS445=12
KOHANIM
2623ybP
Z18271, Z18272, Z22656, ZS2400-ZS2402, S24930, ZS2475
19.4 SNPs
ZS5145-ZS5169
FTDNA#N112500; 25 SNPs
ZS2477-ZS2501, ZS2502-ZS2511; DYS638=10, DYS459b=10
FTDNA#154921; 34 SNPs
DYS511=7, DYS525=9
1258ybP
S12192, S17446, S18537, S18784, S20001, S22932, S22972, Z18274-Z18278, ZS4100
9.23 SNPs
BY68, Z18280, Z18281, Z18282
6.69 SNPs
406ybP 683ybP*
ZS2366, ZS2368, ZS2369; DYS463=23, DYS513=10
3 SNPs
541ybP
ZS10441, ZS10443
4 SNPs
ZS10440, ZS10442, ZS10444, ZS10445
FTDNA#347278; 4 SNPs
270ybP
ZS2370
2 SNPs
135ybP
ZS2371
1 SNPs
ZS2367
FTDNA#N62223; 2 SNPs
676ybP 925ybP*
ZS2375, ZS2376, ZS2378
5 SNPs
ZS4097-ZS4099, ZS4101, ZS4103-ZS4105, ZS4107, ZS4108
FTDNA#267446; 9 SNPs
541ybP
ZS2374
4 SNPs
406ybP
ZS10317, ZS10319
3 SNPs
270ybP
S15852
2 SNPs
ZS10316, ZS10318
ø
FTDNA#70628; 0 SNPs
BY75, ZS2373
FTDNA#207808; 2 SNPs
ZS11209-ZS11213
FTDNA#448485; 5 SNPs
252ybP*
DYS413a=19
1657ybP
Z18290
12.25 SNPs
845ybP 703ybP*
BY67, ZS2387, Z18286-Z18289; DYS413b=23
6.25 SNPs
744ybP 627ybP*
ZS2379, FGC17486
5.5 SNPs
BY78, ZS2380, ZS3664-ZS3666
FTDNA#285280; 5 SNPs
ZS4340-ZS4345
FTDNA#65859; 6 SNPs
BY79, ZS2382, ZS2383, ZS2385, ZS2386, ZS2388
FTDNA#221995; 6 SNPs
ZS2457-ZS2474, ZS2476
FTDNA#161627; 19 SNPs
DYS464a=11
1281ybP*
ZS2434; DYS438=9
ZS2431-ZS2433, ZS2435-ZS2437, ZS2439-ZS2444, ZS2446-ZS2456
FTDNA#52384; 22 SNPs
ZS7999-ZS8005; ZS8006-ZS8021
PF2015#806
BANŪ TAMĪM
1576ybP; 1.4kybP*
FGC4723, FGC4724, FGC4727, FGC4729-FGC4731, FGC4732, FGC4734, FGC4735, FGC4736, FGC4737, FGC4738, FGC4739, FGC4741, FGC4742, FGC4743, FGC4747, FGC4748, FGC4749, FGC4751, FGC4754, FGC4756, FGC4757, FGC4758, FGC4759, FGC4760, FGC4761, FGC4762, FGC4763, FGC4764, FGC4765, FGC4767, FGC4768, FGC4769, FGC4770, FGC4771, FGC4772, FGC4773, FGC4774, FGC4777-FGC4780, FGC4781, FGC4782, FGC4784, FGC4785, FGC4786, FGC4788, FGC4789, FGC4792, FGC4795, FGC4802, FGC4823, FGC19895, FGC22403, Z41334, FGC47368, FGC47369, FGC47373, FGC47375, FGC47864; FGC4750, FGC4805, ZS2512, Z21076, FGC19744, Y10743, Y10744; DYS638=12, DYS497=14, DYS643=8
11.65 SNPs
571ybP
FGC4725, FGC4726, FGC4728, FGC4740, FGC4744, FGC4755, FGC4776, FGC4783, FGC4787, FGC7964, FGC19896, FGC47370, FGC47372, FGC47374, FGC47376
4.23 SNPs
242ybP
FGC4794, FGC4797, FGC4799, FGC4800, FGC4804
1.79 SNP
PR4088, FGC4793, FGC4796, FGC4798, FGC4801
FTDNA#171102; FGC#1034A; 5 [2.97] SNPs
FGC47371
FTDNA#210867; FGC#8Y3PT; 1 [0.6] SNPs
FGC4733, FGC4746, FGC4752, FGC4753, FGC4775
FTDNA#M7209; FGC#1033A; 5 [2.98] SNPs
FGC31164-FGC31170
FTDNA#256766; FGC#E6GMJ; 7 [4.18] SNPs
ZS11875-ZS11879
FTDNA#M10770; 5 SNP
AL-MAZRŪʿ
699ybP
FGC4807, FGC4809, FGC4812, FGC4814, FGC4816, FGC4817, FGC4828
5.17 SNPs
FGC4806
FGC4808, FGC4810, FGC4811, FGC4813, FGC4815, FGC4818, FGC4819, FGC4820, FGC4821
FTDNA#210856; FGC#1035A; 9 [5.35] SNPs
404ybP
FGC23929 (ZS5375), FGC23930
2.99 SNPs
ø
FTDNA#M9665; 0 SNP
325ybP
ZS10034, FGC47854-FGC47856, FGC47861, FGC48059
2.4 SNPs
ø
FTDNA#M7595; 0 SNP
FGC47857-FGC47860, FGC47862, FGC47863
FTDNA#M8378; FGC#8EHVN; 6 [3.62] SNPs
FGC48060, FGC48061
FTDNA#M9665; FGC#EBWKM; 2 [4.18] SNPs
873ybP
ZS4655, ZS4657, ZS4658, ZS4661, ZS4663, ZS4664; FGC21567
6.46 SNPs
ZS4656, ZS4659, ZS4660, ZS4662
FTDNA#193946; 4 SNPs
FGC22388-FGC22402
1738ybP
ZS9413
ZS9417, ZS9419,
ZS9430, FGC41803


M368 (private)
M369 (private)
M367 (private)
7764yBP
6812yBP*
Z1878, Z1885 (CTS10882), Z1889 (FGC1687),
Z2315, FGC7628, Y2336, Y2349_2
57.41 SNPs
BANŪ MURĀD
ZS7471,
3=12
35.5 SNPs
5072yBP
ZS2518,
ZS2542,
4869yBP
2956yBP*
ZS2527, ZS2536,
ZS2544; DYS459a=7
36 SNPs
676yBP
ZS6004-ZS6012, ZS6014-ZS6018,
ZS6020-ZS6030, ZS6032-ZS6037
5 SNPs
1623yBP; 2057yBP*
ZS2513, ZS2514-ZS2516,
ZS2519, ZS2521, ZS2522,
ZS2525, ZS2526, ZS2532-
ZS2535, ZS2537-ZS2540,
ZS2549-ZS2554, ZS2556,
ZS2557; DYS643=11,
DYS461=12, DYS533=12
12 SNPs
ZS5277-ZS5310
FTDNA#37965; 34 SNPs
ZS6013, ZS6019,
ZS6031
FTDNA#N122012; 3 SNPs
ZS11262-
ZS11268
FTDNA#238746; 7 SN
5305yBP
FGC4745,
FGC4766
39.23 SNPs
676yBP
395yBP*
M11522, FGC6244, ZS6165-ZS6170, ZS6173, ZS6174, ZS6176-ZS6178,
ZS6180-ZS6184, ZS6186, ZS6188-ZS6197, ZS6199-ZS6204, ZS6207, ZS6208
5 SNPs
Z28256
Z28257,
Z28258, Z37134
Z28259
Z28260,
Z28261, Z37138
, ZS9418, ZS9421, ZS9422, ZS9424-ZS9427, ZS9428, ZS9429,
24, Y20025, FGC41800-FGC41802, FGC48081, FGC48088
12.85 SNPs
3013yBP*
DYS531=12
379yBP*
DYS534=13
ZS6171, ZS6175, ZS6179, ZS6185, ZS6187,
ZS6198, ZS6205, ZS6206
FTDNA#337956; 8 SNPs
ZS6359, ZS6360
FTDNA#M5077; 2 SNPs
ZS2517, ZS2520, ZS2523, ZS2529, ZS2530, ZS2543,
ZS2545, ZS2546, ZS2548, ZS2555, ZS2558
FTDNA#N44444; 11 SNPs
ZS4049-ZS4055, ZS4057-
ZS4061, ZS7269
FTDNA#260231; 13 SNPs
ZS7951
PF2015#792
M5815, ZS7952-
ZS7956
PF2015#793
ZS7957
PF2015#794
ZS7958
PF2015#795
ZS7964-ZS7965
PF2015#798
M4076, ZS7967-
ZS7968
PF2015#799
ZS7969, ZS7970
PF2015#800
M9279, ZS7972-
ZS7979
PF2015#801
420, ZS9423,
, FGC41804
FTDNA#305937; 15 SNPs
1183yBP
ZS10110-
ZS10117
8.75 SNPs
2064yBP*
DYS438=11
CTS11001, PF5019,
FGC22330-FGC22387
FTDNA#252940; FGC#4KIFF; 58 [36.47] SNPs
MASĪḤĪYŪN
ø
FTDNA#M10564; 0 SNPs
S9897, FGC48062-FGC48080, FGC48082-
FGC48087, FGC48089, FGC48090
FTDNA#M9223; FGC#JLNSQ; 29 [17.5] SNPs
609yBP
1067yBP*
ZS6261-ZS6267, ZS6269-ZS6272, ZS6274, ZS6276, ZS6277, ZS6279-
ZS6281, ZS6283, ZS6285, ZS6286, ZS6288, ZS6289; DYS520=19
4.5 SNPs
ZS6268, ZS6273, ZS6275,
ZS6282, ZS6284, ZS6287
FTDNA#3060; 6 SNPs
ZS6409-ZS6411
FTDNA#184678; 3 SNPs


M390 (private)
10511yBP 7727yBP*
P58, YSC62, YSC164, YSC181, YSC188, Z1874, Z1890, Z1891, Z2346, Z2347, Z2365, Z2368, Z2375, Z2379, Z2382, PF4841, PF4654, PF4814, PF4830, PF4835, PF4844, CTS8437, CTS9154, CTS11501
77.72 SNPs
8375yBP 7727yBP*
YSC141, Z1851, Z1859, Z1872, Z1873, Z2332-Z2335, Z2340-Z2344, Z2350, Z2364, Z2367, Z2370, Z2371, Z2376, Z2380, Z2385, PF4629, PF4842, FGC1631, FGC37536; L815
61.93 SNPs
BANŪ SHIHHUH
8247yBP
Z1865, Z1892, YSC183, Z2316, Z2319, Z2326
60.98 SNPs
M7651, PH4740, FGC22105, ZS10183-ZS10245; DYS490=13, DYS446=18, DYS455=10
FTDNA#M3703; 66 SNPs
6993yBP 5877yBP*
Z643, Z1853, Z1854, Z1856, Z1869, YSC200, CTS5269, PF7271, Z2311, Z2318, Z2321, Z2325, Z2327, Z2330
51.71 SNPs
6104yBP 5631yBP*
L862, Z1855, Z1860, Z1867, Z1871, Z1875, Z1880, Z1886, Z1887, Z1888, PF4635, PF4799, PF4838, Z2314, Z2331, FGC1681, Z18495; L147
45.13 SNPs
PF6328
FTDNA#N113332
ZS2524, ZS2531, ZS2541, ZS2547, Z37107-Z37110
37.5 SNPs
DYS617=10
ARMENIAN
SK1296, SK1297, Z28217-Z28253, Z37112-Z37131
ZS7896-ZS7898; ZS7899-ZS7915
PF2015#782
383yBP*
DYS565=10, YCAIIb=23
FGC24038, Z37133
Z28262
Z28263-Z28267, Z37139, Z37140
ZS7933-ZS7937
PF2015#786
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PF2015#787
ZS7940
PF2015#788
ZS7941, ZS7942
PF2015#789
ZS7944-ZS7947
PF2015#790
ZS7948-ZS7950
PF2015#791
Z37135
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PF2015#802
ZS7987-ZS7992
PF2015#803
ZS7995-ZS7997
PF2015#804
ZS7998
PF2015#805
ZS7959-ZS7962
PF2015#796
ZS7963, ZS7964
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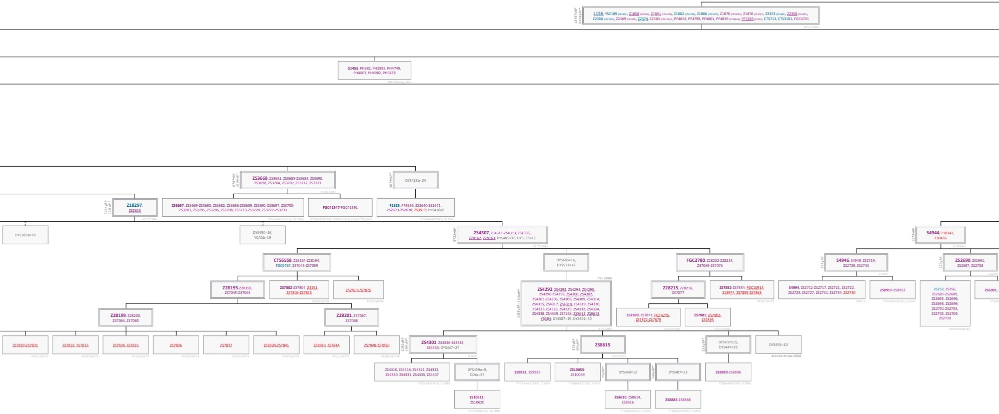
ZS7918, ZS7919; ZS7920-ZS7925
PF2015#783
ZS7926-ZS7928
PF2015#784
FGC1680, ZS7930-ZS7932
PF2015#785
3178yBP
ZS3736, ZS3745
23.5 SNPs
PF5911, ZS3734, ZS3735, ZS3737-ZS3744, ZS3746-ZS3757, FGC20909, FGC20924-FGC20926
FTDNA#286699; 27 SNPs
ZS8436-ZS8455
FTDNA#287514; 20 SNPs
CTS10075, ZS3758-ZS3779, ZS3781-ZS3790
FTDNA#302603; 33 SNPs
5241yBP 4446yBP*
ZS2589
38.75 SNPs
3449yBP 4034yBP*
ZS2566, ZS2572, ZS2575, ZS2578, ZS2582, ZS2584, ZS2591, ZS2593-ZS2595, FGC20876, FGC20893, FGC20895
25.5 SNPs
FGC27989, ZS9770-ZS9808
FTDNA#N15315; 40 SNPs
1849yBP*
DYS438=11
BY112, ZS2560-ZS2565, ZS2567-ZS2571, ZS2573, ZS2574, ZS2576, ZS2577, ZS2580, ZS2581, ZS2583, ZS2585-ZS2588, ZS2590, ZS2592, ZS2596, FGC20869, FGC20879, FGC20886
FTDNA#N112135; 33 SNPs
1623yBP
ZS3979, ZS3981, ZS3983, ZS3984, ZS3986, ZS3987
12 SNPs
ZS3974-ZS3978, ZS3980, ZS3982, ZS3985, ZS3988, ZS3989
FTDNA#2082; 10 SNPs
PH4242
ZS784, PH1484, PH1937, PH2214, PH2668, PH4257
PH2014#tur-6
ZS12589-ZS12601
FTDNA#M10733; 13 SNPs
4717yBP
Z18294-Z18296; Z18293.1
34.88 SNPs
4970yBP
Z18292
36.75 SNPs
FGC10986, Y4910, ZS11562-ZS11591
FTDNA#283839; 32 SNPs
5072yBP 4670yBP*
DYS487=15
37.5 SNPs
3111yBP
CTS4459, ZS2601, ZS2603-ZS2605, ZS2607, ZS2614, ZS2622, ZS2624, ZS2631, ZS2637, ZS2638
23 SNPs
ZS9373-ZS9412
FTDNA#162205; 40 SNPs
YEHUDIM
1758yBP 1449yBP*
M4320, ZS2598, ZS2600, ZS2606, ZS2610, ZS2612, ZS2616, ZS2618, ZS2620, ZS2625, ZS2626, ZS2629
13 SNPs
ZS9712-ZS9732
FTDNA#378452; 21 SNPs
M7758, ZS7826-ZS7828
PF2015#770
ZS2597, ZS2599, ZS2602, ZS2608, ZS2609, ZS2611, ZS2612, ZS2615, ZS2617, ZS2619, ZS2621, ZS2627, ZS2628, ZS2630, ZS2636, ZS2639
FTDNA#N33162; 15 SNPs
ZS9021-ZS9031
FTDNA#N58266; 11 SNPs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8394yBP*
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101.8 SNPs
S1455, PH582, PH2895, PH4749, PH4803, PH4982, PH5438
PH2014#eng-O36
6747yBP
3259yBP*
ZS3668, ZS3681, ZS3683-ZS3685, ZS3690, ZS3698, ZS3704, ZS3707, ZS3712, ZS3721
49.89 SNPs
5072yBP*
DYS413b=24
5784yBP
5631yBP*
Z18297, ZS2613
42.77 SNPs
ZS3667, ZS3669-ZS3680, ZS3682, ZS3686-ZS3689, ZS3691-ZS3697, ZS3700-ZS3703, ZS3705, ZS3706, ZS3708, ZS3713-ZS3720, ZS3722-ZS3733
FTDNA#N116114; 53 SNPs
FGC41547-FGC41591
FTDNA#285562; FGC#DUKJS; 45 [46.77] SNPs
F1529, PF5956, ZS2640-ZS2671, ZS2673-ZS2678; ZS9817; DYS438=9
FTDNA#N27443; 39 SNPs
DYS385a=18
DYS490=16, YCAIIb=19
5722yBP
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42.75 SNPs
1172yBP
S4944; Z18347, Z30436
8.67SNPs
CTS6558, Z28164-Z28194, FGC9767, Z37045-Z37059
DYS485=16, DYS533=12
FGC2780, Z28202-Z28214, Z37069-Z37076
811yBP
S4946, S4949, ZS2719, ZS2729, ZS2733
6 SNPs
270yBP
ZS2690, ZS2691, ZS2697, ZS2708
2 SNPs
Z28195-Z28198, Z37045-Z37063
ZS7802-ZS7804; Z3151, ZS7806-ZS7815
PF2015#768
ZS7817-ZS7825
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YEHUDIM
1193yBP; 1738yBP*
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S4994, ZS2712-ZS2717, ZS2721, ZS2722, ZS2725, ZS2727, ZS2731, ZS2734; ZS2730
PGP15
ZS8917-ZS8922
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ZS252, ZS256, ZS2681-ZS2689, ZS2695, ZS2696, ZS2698, ZS2699, ZS2701-ZS2703, ZS2705, ZS2709, ZS2710
1kGP#HG00181
ZS6301,
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Z28201, Z37067, Z37068
ZS7870, ZS7871; FGC4225, ZS7872-ZS7879
PF2015#780
ZS7881; ZS7882-ZS7895
PF2015#781
ZS7829-ZS7831
PF2015#771
ZS7832, ZS7833
PF2015#772
ZS7834, ZS7835
PF2015#773
ZS7836
PF2015#774
ZS7837
PF2015#775
ZS7838-ZS7841
PF2015#776
ZS7843, ZS7844
PF2015#777
ZS7848-ZS7850
PF2015#7778
1082yBP
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8 SNPs
575yBP
662yBP*
ZS8615
4.25 SNPs
233yBP*
DYS437≥15, DYS447=28
DYS494=10
SEPARDIM SALÜNİQİ
ZS4310, ZS4316, ZS4321, ZS4322, ZS4330, ZS4331, ZS4335, ZS4337
FTDNA#267403; 6 SNPs
DYS459a=9, CDYa=37
ZS9932, ZS9933
FTDNA#N115447; 2 SNPs
ZS10053-ZS10059
FTDNA#151335; 7 SNPs
75yBP*
DYS460=12
144yBP*
DYS487=13
ZS8889-ZS8896
FTDNA#N98764; 8 SNPs
ZS10611-ZS10620
FTDNA#95155; 10 SNPs
ZS8610, ZS8614, ZS8616
FTDNA#65141; 3 SNPs
ZS8885-ZS8888
FTDNA#N37661; 4 SNPs

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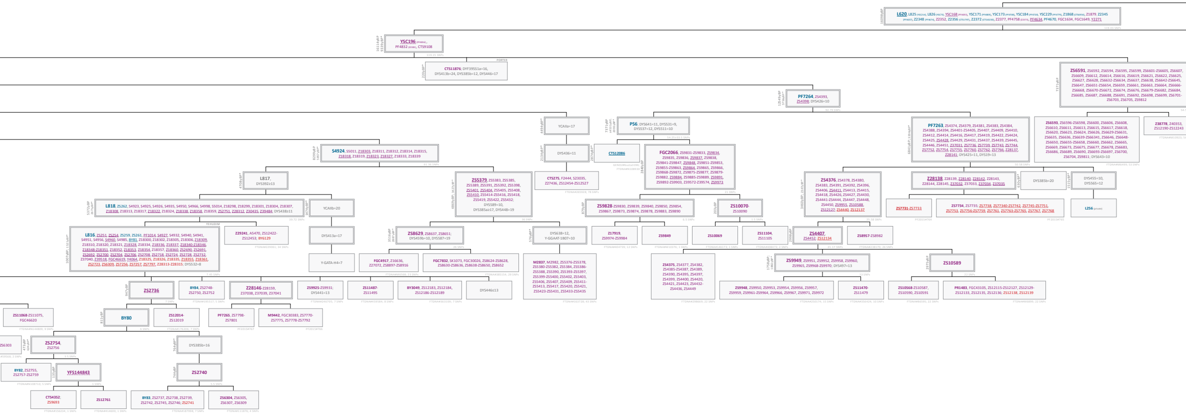
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119.03 SNPs
16114yBP 9339yBP*
YSC196 (PF4826), PF4832 (Z2381), CTS9108
119.15 SNPs
PORTER
220yBP*
CTS11876; DYF395S1a=16, DYS413b=24, DYS385b=12, DYS446=17
7371yBP
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12549yBP 5756yBP*
PF7264, ZS4393, ZS4398; DYS426=10
92.79 SNPs
4494yBP*
YCAIIa=17
7371yBP; ±4531yBP; 2093yBP*
P56; DYS641=11, DYS531=9, DYS537=12, DYS511=10
54.25±33.5 SNPs
6841yBP; 3394yBP*
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61.36 SNPs
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2874yBP*
CTS12086
GENO2#busta3396; FTDNA#N108930
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21 SNPs
4708yBP*
L817, DYS392≥13
4869yBP; 3427yBP*
ZS5379, ZS5383, ZS5385, ZS5389, ZS5391, ZS5392, ZS5398, ZS5401, ZS5404, ZS5405, ZS5408, ZS5410, ZS5414-ZS5416, ZS5418, ZS5419, ZS5422, ZS5432; DYS589=10, DYS385a≥17, DYS448=19
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3460yBP; 2347yBP*
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DYS455=10, DYS565=12
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6.5 SNPs
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1.5 SNPs
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PF2015#765
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YEHUDIM
1007yBP; 1521yBP*
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ZS11104, ZS11105
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2998yBP
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21.17 SNPs
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FGC4917, Z16636, Z27072, ZS8897-ZS8916
FTDNA#M6568; 23 SNPs
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FTDNA#385154; 29 SNPs
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FTDNA#163728; 43 SNPs
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2975yBP
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22 SNPs
947yBP
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FTDNA#356424; 10 SNPs
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FTDNA#86595; 22 SNPs
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811yBP
BY80
6 SNPs
ZS12014-ZS12019
FTDNA#176206; 7 SNPs
PF7265, ZS7798-ZS7801
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1 SNPs
744yBP
ZS2740
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CTS4352; ZS9693
FTDNA#156234; 1 SNPs
ZS12761
FTDNA#414600; 1 SNPs
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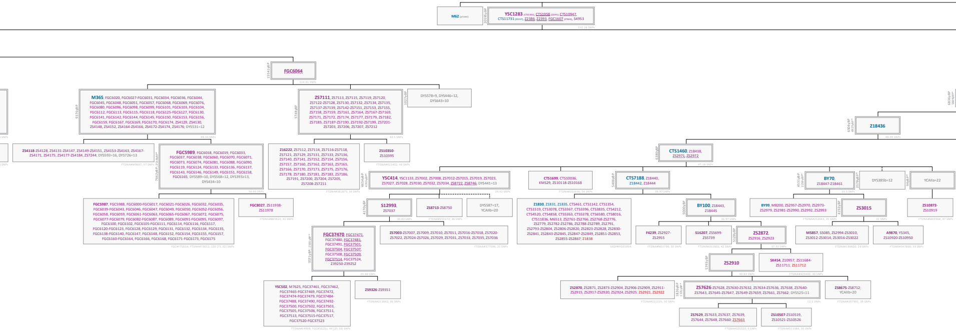
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152.28 SNPs
15541ybP
FGC6064
114.91 SNPs
9376ybP
M365, FGC6020, FGC6027-FGC6031, FGC6034, FGC6036, FGC6044, FGC6045, FGC6048, FGC6051, FGC6057, FGC6068, FGC6069, FGC6076, FGC6080, FGC6096, FGC6098, FGC6099, FGC6101, FGC6103, FGC6104, FGC6112, FGC6113, FGC6115, FGC6118, FGC6125-FGC6127, FGC6130, FGC6141, FGC6142, FGC6144, FGC6145, FGC6150, FGC6153, FGC6156, FGC6159, FGC6167, FGC6169, FGC6170, FGC6174, ZS4129, ZS4130, ZS4148, ZS4152, ZS4164-ZS4166, ZS4172-ZS4174, ZS4176; DYS531=12
69.33 SNPs
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FTDNA#M9697; 57 SNPs
7662ybP; 2518ybP*
FGC5989, FGC6018, FGC6019, FGC6033, FGC6037, FGC6038, FGC6060, FGC6070, FGC6071, FGC6073, FGC6074, FGC6081, FGC6088, FGC6090, FGC6119, FGC6124, FGC6133, FGC6136, FGC6137, FGC6143, FGC6146, FGC6149, FGC6151, FGC6158, FGC6165; DYS589=10, DYS568=12, DYS393≥13, DYS434=10
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FTDNA#381875; 39 SNPs
ZS10350-ZS10395
FTDNA#415402; 46 SNPs
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YSC414, YSC1133, ZS7002, ZS7008, ZS7012-ZS7015, ZS7019, ZS7023, ZS7027, ZS7028, ZS7030, ZS7032, ZS7034, ZS8722, ZS8746; DYS441=13
34.42 SNPs
4170ybP
S12993, ZS7037
30.83 SNPs
ZS8713-ZS8750
FTDNA#255172; 36 SNPs
DYS587=17, YCAIIb=20
3571ybP; 2501ybP*
FGC37470, FGC37471, FGC37480, FGC37481, FGC37491, FGC37501, FGC37504, FGC37507, FGC37508, FGC37509, FGC37514, FGC37524, Z39250-Z39252
25.66 SNPs
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FTDNA#377596; 21 SNPs
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FTDNA#E4998; FGC#5G25J; 44 [25.33] SNPs
ZS9326-ZS9351
FTDNA#213692; 26 SNPs
6836ybP 5609ybP*
6504ybP 4927ybP*
Z18436
48.09 SNPs
6380ybP
CTS1460, Z18438, ZS2971, ZS2972
47.18 SNPs
CTS1699, CTS10036, KMS29, ZS10118-ZS10168
FTDNA#201636; 54 SNPs
5406ybP
CTS7188, Z18440, Z18442, Z18444
39.97 SNPs
Z1830, Z1831, Z1835, CTS461, CTS1142, CTS1354, CTS1519, CTS3078, CTS3367, CTS3396, CTS3835, CTS4212, CTS4520, CTS4858, CTS5363, CTS5378, CTS6580, CTS8016, CTS11836, M6513, ZS2761-ZS2766, ZS2768-ZS2776, ZS2779, ZS2782-ZS2786, ZS2788-ZS2789, ZS2791, ZS2793-ZS2804, ZS2806-ZS2820, ZS2823-ZS2828, ZS2830-ZS2841, ZS2843-ZS2845, ZS2847-ZS2849, ZS2851-ZS2853, ZS2855-ZS2867; Z1838
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BY100, Z18443, Z18445
36.97 SNPs
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S16207, ZS5699-ZS5739
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37.92 SNPs
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ZS2910
42.83 SNPs
SK454, Z10957, ZS11684-ZS11711; ZS11712
FTDNA#429400; 30 SNPs
ZS2870, ZS2871, ZS2873-ZS2904, ZS2906-ZS2909, ZS2911-ZS2915, ZS2917-ZS2920, ZS2924, ZS2925; ZS2921, ZS2922
FTDNA#211325; 50 SNPs
1826ybP 1335ybP*
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FTDNA#325320; 6 SNPs
ZS10507-ZS10519, ZS10521-ZS10526
FTDNA#313384; 19 SNPs
4531ybP 2216ybP*
BY70, Z18447-Z18461
33.5 SNPs
2578ybP*
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FTDNA#252043; 35 SNPs
4192ybP
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31 SNPs
M5857, S5085, ZS2994-ZS3010, ZS3012-ZS3014, ZS3016-ZS3022
FTDNA#199820; 29 SNPs
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FTDNA#347860; 33 SNPs
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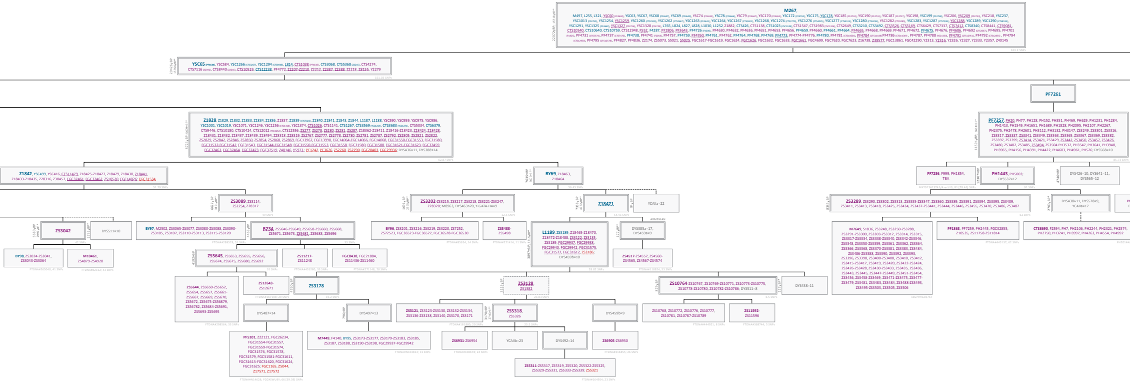
FTDNA#M6996#; 47 SNPs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151.03 SNPs
PF7261
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56.45 SNPs
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MK2015#13741/Azerb13; 81 [78.46] SNPs
12307yBP
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91 SNPs
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12.5 SNPs
7358yBP; 4962yBP*
Z18471
54.41 SNPs
94yBP
YCAIIa=22
ARMENIAN
8385yBP
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62 SNPs
2700yBP*
DYS438=11, DYS578=9, YCAIIa=17
5680yBP; 2997yBP*
ZS3042
42 SNPs
2732yBP*
DYS511=10
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FTDNA#299529; 51 SNPs
4463yBP
B234, ZS5646-ZS5649, ZS5658-ZS5660, ZS5668, ZS5671, ZS5673, ZS5681, ZS5683, ZS5696
33 SNPs
BY96, ZS3201, ZS3216, ZS3219, ZS3220, ZS7252, ZS72523, FGC36523-FGC36527, FGC36528-FGC36530
FTDNA#85654; 14 SNPs
ZS5488-ZS5498
FTDNA#221414; 11 SNPs
3897yBP; 3315yBP*
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M7649, S1836, ZS3248, ZS3250-ZS3288, ZS3291-ZS3300, ZS3303-ZS3312, ZS3314, ZS3315, ZS3317-ZS3334, ZS3338-ZS3340, ZS3342-ZS3346, ZS3348, ZS3350-ZS3359, ZS3361, ZS3362, ZS3364, ZS3366, ZS3368, ZS3370-ZS3381, ZS3383, ZS3484, ZS3486-ZS3388, ZS3390, ZS3392, ZS3393, ZS3396, ZS3398, ZS3400-ZS3408, ZS3410, ZS3412, ZS3415-ZS3417, ZS3419, ZS3420, ZS3422-ZS3424, ZS3426-ZS3428, ZS3430-ZS3433, ZS3435, ZS3436, ZS3443, ZS3445, ZS3447-ZS3449, ZS3451-ZS3454, ZS3456, ZS3458-ZS3469, ZS3471-ZS3475, ZS3477-ZS3479, ZS3481, ZS3483, ZS3484, ZS3488-ZS3493, ZS3495-ZS3503, ZS3505, ZS3506
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FTDNA#265040; 41 SNPs
M10461, ZS4879-ZS4920
FTDNA#82332; 43 SNPs
4192yBP
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31 SNPs
ZS11217-ZS11248
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FTDNA#298564; 33 SNPs
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FTDNA#167108; 29 SNPs
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ZS3178
35.2 SNPs
3223yBP
ZS3128, Z31382
23.83 SNPs
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FTDNA#181880; 20 SNPs
3178yBP; 2740yBP*
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23.5 SNPs
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FTDNA#444921; 8 SNPs
ZS11592-ZS11596
FTDNA#368744; 5 SNPs
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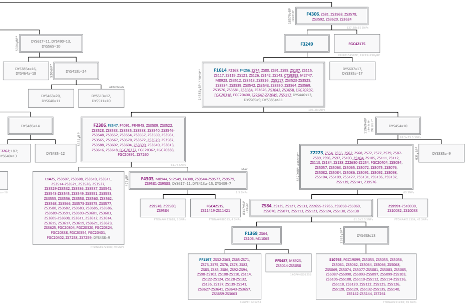
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5988yBP*
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8520yBP; 4342yBP*
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61.5±2.5 SNPs
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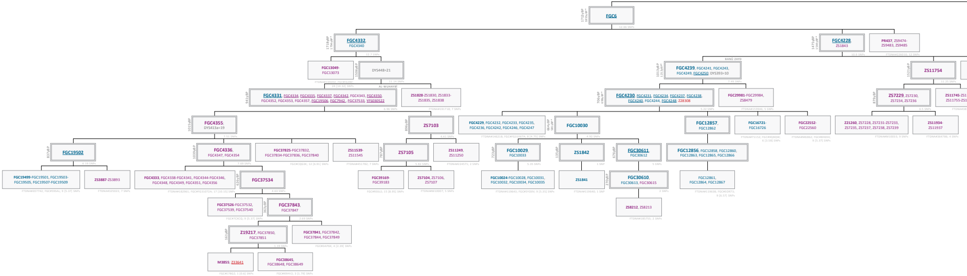
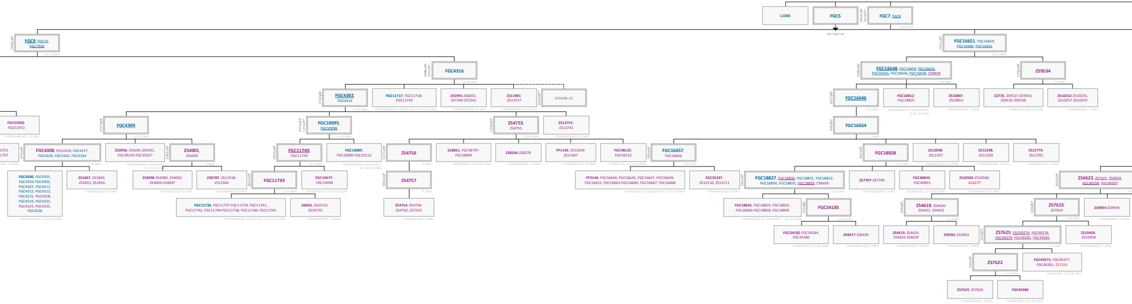
FTDNA#211228; 59 SNPs

25 Jan 2017 © Copyright Victar Mas. DOI: 10.6084/m9.figshare.741212. Age estimates generated using the Big Y mutation rate 135.24y/SNP based on the work of Iain McDonald, Mar 2015. Age estimates marked by an asterisk (*) are generated using STR marker phylogeny by Dr. Marko T. Heinilä, Apr 2014. http://bit.ly/UxSuwJ


FGC6
1712ybP
1855ybP*
12.66 SNPs
FGC4332, FGC4340
1718ybP
1794ybP*
12.7 SNPs
FGC13049-FGC13073
FTDNA#169202; FGC#IG28Z; 24 [14.32] SNPs
DYS448=21
1506ybP
11.14 SNPs
AL-WUHAYBĪ
FGC4331, FGC4334, FGC4335, FGC4337, FGC4342, FGC4343, FGC4350, FGC4352, FGC4353, FGC4357, FGC19506, FGC7942, FGC37533, YFS030522
941ybP
6.96 SNPs
ZS1828-ZS1830, ZS1833-ZS1835, ZS1838
FTDNA#191718; 7 SNPs
FGC4355; DYS413a=19
1015ybP
7.51 SNPs
FGC19502
837ybP
6.19 SNPs
FGC19499-FGC19501, FGC19503-FGC19505, FGC19507-FGC19509
FTDNA#207742; FGC#S9SAL; 9 [5.37] SNPs
ZS3887-ZS3893
FTDNA#325023; 7 SNPs
FGC4336, FGC4347, FGC4354
1039ybP
7.69 SNPs
FGC4333, FGC4338-FGC4341, FGC4344-FGC4346, FGC4348, FGC4349, FGC4351, FGC4356
FTDNA#182961; FGC#FG31072A; 17 [10.15] SNPs
FGC37534
626ybP
4.63 SNPs
FGC37526-FGC37532, FGC37539, FGC37540
FGC#7CXCQ; 9 [5.37] SNPs
FGC37843, FGC37847
363ybP
2.69 SNPs
Z19217, FGC37850, FGC37851
161ybP
1.19 SNPs
M3855; Z33641
FGC#E78GZ; 1 [0.6] SNPs
FGC38645, FGC38648, FGC38649
FGC#KRHV2; 3 [1.79] SNPs
FGC37841, FGC37842, FGC37844, FGC37849
FGC#DAP6K; 4 [2.39] SNPs
FGC37825-FGC37832, FGC37834-FGC37836, FGC37840
FGC#CQG3K; 12 [6.91] SNPs
ZS11539-ZS11545
FTDNA#451782; 7 SNPs
ZS7103
896ybP
4.41 SNPs
ZS7105
787ybP
5.82 SNPs
FGC39169-FGC39183
FGC#RE6LS; 15 [8.95] SNPs
ZS7104, ZS7106, ZS7107
FTDNA#M10007; 5 SNPs
ZS11249, ZS11250
FTDNA#224571; 2 SNPs
FGC4228, ZS1843
1475ybP
1544ybP*
10.9 SNPs
PR437, ZS9474-ZS9483, ZS9485
FTDNA#226010; 12 SNPs
BANŪ ZAYD
FGC4239, FGC4241, FGC4243, FGC4249, FGC4250; DYS393=10
1013ybP
1212ybP*
7.49 SNPs
FGC4230, FGC4231, FGC4234, FGC4237, FGC4238, FGC4240, FGC4244, FGC4248; Z28308
706ybP
698ybP*
5.22 SNPs
FGC29981-FGC29984, ZS8479
FTDNA#159946; 5 SNPs
FGC4229, FGC4232, FGC4233, FGC4235, FGC4236, FGC4242, FGC4246, FGC4247
FTDNA#146218; FGC#FG31067A; 8 [4.75] SNPs
FGC10030
664ybP
581ybP*
4.92 SNPs
FGC10029, FGC10033
723ybP
5.35 SNPs
FGC10024-FGC10028, FGC10031, FGC10032, FGC10034, FGC10035
FTDNA#119643; FGC#5YO0V; 9 [5.35] SNPs
ZS1842
135ybP
1 SNP
ZS1841
FTDNA#119640; 1 SNP
FGC30611, FGC30612
676ybP
5 SNPs
FGC30610, FGC30613, FGC30615
270ybP
2 SNPs
ZS8212, ZS8213
FTDNA#185755; 2 SNPs
FGC12857, FGC12862
FGC12856, FGC12858, FGC12860, FGC12863, FGC12865, FGC12866
FGC12861, FGC12864, FGC12867
FTDNA#119638; FGC#EOR73; 9 [6.57] SNPs
FGC16721-FGC16726
FTDNA#71152; FGC#XQ8QW; 6 [3.58] SNPs
FGC22552-FGC22560
FTDNA#M6862; FGC#BH694; 9 [5.37] SNPs
ZS11754
1521ybP
11.25 SNPs
ZS7229, ZS7230, ZS7234, ZS7236
879ybP
6.5 SNPs
Z21260, ZS7228, ZS7231-ZS7233, ZS7235, ZS7237, ZS7238, ZS7239
FTDNA#M10033; 9 SNPs
ZS11934-ZS11937
FTDNA#364786; 4 SNPs


L1303
FGC5
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1902ybP
1950ybP*
FGC7, FGC8
14.06 SNPs
1908ybP
FGC9, FGC10, FGC7936
14.11 SNPs
1521ybP
FGC16651, FGC16659, FGC16660, FGC16661
11.25 SNPs
1888ybP
1855ybP*
FGC4316
13.96 SNPs
1060ybP
FGC16648, FGC16650, FGC16652, FGC16655, FGC16656, FGC16658, Z38458
7.66 SNPs
1352ybP
ZS9534
9.5 SNPs
1750ybP
FGC4302, FGC4314
12.94 SNPs
FGC11717, FGC11718-FGC11734
FTDNA#264485; FGC#D77GC; 18 [10.7] SNPs
ZS5991-ZS6001, ZS7240-ZS7242
FTDNA#M7186; 14 SNPs
ZS11901-ZS11917
FTDNA#M10613; 17 SNPs
1635ybP*
DYS448=21
1027ybP
FGC16646
7.59 SNPs
FGC18812-FGC18825
FTDNA#256761; FGC#GHVWP; 14 [8.32] SNPs
ZS10847-ZS10853
FTDNA#445913; 7 SNPs
Z2735, ZS9527-ZS9533, ZS9535-ZS9538
FTDNA#254736; 12 SNPs
ZS10252-ZS10255, ZS10257-ZS10259
FTDNA#M9864; 7 SNPs
FGC51963-FGC51972
FTDNA#485357; 10 SNPs
1557ybP
FGC4309
11.52 SNPs
1972ybP
1393ybP*
FGC10095, FGC10096
14.58 SNPs
1398ybP
ZS4753, ZS4755
10.34 SNPs
ZS12731-ZS12741
FTDNA#479223; 11 SNPs
946ybP
FGC16654
7 SNPs
1753,
1757
861; 12 SNPs
876ybP
FGC4308, FGC4310, FGC4317, FGC4320, FGC4322, FGC4324
6.48 SNPs
ZS3956, ZS4281-ZS4291, FGC39219-FGC39227
FTDNA#M8450; FGC#UXSLT; 21 [12.53] SNPs
1082ybP
ZS4001, ZS4003
8 SNPs
1853ybP
FGC11740, FGC11759
13.7 SNPs
FGC10089, FGC10090-FGC10112
FTDNA#183429; FGC#T38CY; 24 [14.26] SNPs
1217ybP
ZS4756
9 SNPs
S18051, FGC38797-FGC38809
FGC#P8WXJ; 14 [8.36] SNPs
ZS8266-ZS8278
FTDNA#333692; 13 SNPs
YP1143, ZS11059-ZS11067
FTDNA#190336; 10 SNPs
FGC48122-FGC48132
FGC#ELE38; 11 [6.33] SNPs
685ybP
FGC16657, FGC16666
5.07 SNPs
802ybP
FGC18828
5.9 SNPs
ZS12098-ZS12107
FTDNA#366513; 10 SNPs
ZS12108, ZS12109
FTDNA#366520; 2 SNPs
ZS12773-ZS12781
FTDNA#419125; 9 SNPs
FGC4300, FGC4301, FGC4303-FGC4305, FGC4307, FGC4311, FGC4312, FGC4313, FGC4315, FGC4318, FGC4319, FGC4321, FGC4323, FGC4325, FGC4326
FGC#FG31071A; 15 [8.95] SNPs
ZS1847, ZS1849, ZS1853, ZS1856
FTDNA#190324; 4 SNPs
ZS3998-ZS4000, ZS4002, ZS4004-ZS4007
FTDNA#22S197; 8 SNPs
Z30787, ZS11918-ZS11924
FTDNA#M8005; 8 SNPs
1803ybP
FGC11743
13.33 SNPs
FGC19477-FGC19498
FGC#CWE3D; 22 [13.07] SNPs
1082ybP
ZS4757
8 SNPs
PF2144, FGC16644, FGC16645, FGC16647, FGC16649, FGC16653, FGC16662-FGC16665, FGC16667, FGC16668
FTDNA#255122; FGC#UPY53; 12 [7.31] SNPs
FGC35337, ZS12110, ZS12111
FTDNA#419136; 3 SNPs
566ybP
FGC18827, FGC18830, FGC18831, FGC18832, FGC18834, FGC18835, FGC18839, Z38459
4.19 SNPs
ZS7707-ZS7709
FTDNA#226006; 3 SNPs
FGC40843-FGC40855
FGC#N4HBD; 13 [7.76] SNPs
ZS10503-ZS10506; A10277
FTDNA#M6154; 4 SNPs
1033ybP
ZS4623, ZS7621, ZS9939, FGC49204, FGC49207
FGC11736, FGC11737-FGC11739, FGC11741, FGC11742, FGC11744-FGC11758, FGC11760, FGC11761
FTDNA#207596; FGC#3YVPS; 23 [13.67] SNPs
A6055, ZS10721-ZS10732
FTDNA#372782; 13 SNPs
ZS4754, ZS4758-ZS4762, ZS7243
FTDNA#M9483; 7 SNPs
FGC18826, FGC18829, FGC18833, FGC18836-FGC18838, FGC18840
FTDNA#255119; FGC#HYFPC; 7 [4.18] SNPs
432ybP
FGC34185
3.19 SNPs
609ybP
ZS4618, ZS4620-ZS4622, ZS4625
4.5 SNPs
520ybP
ZS7623, ZS7624
3.84 SNPs
ZS9934-ZS9939
FTDNA#M9567; 6 SNPs
FGC34182-FGC34184, FGC34186
FGC#4ALRX; 4 [2.98] SNPs
ZS8417-ZS8420
FTDNA#191599; 4 SNPs
ZS4619, ZS4624, ZS4626-ZS4629
FTDNA#181957; 6 SNPs
ZS9361-ZS9363
FTDNA#320421; 3 SNPs
243ybP
ZS7625, FGC49276, FGC49278, FGC49279, FGC49282, FGC49283
2.3 SNPs
ZS10456-ZS10458
FTDNA#M8924; 3 SNPs
243ybP
ZS7622
1.8 SNPs
FGC49275, FGC49277, FGC49281; Z17151
FGC#ARSRY; 3 [1.78] SNPs
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FTDNA#262987; 2 SNPs
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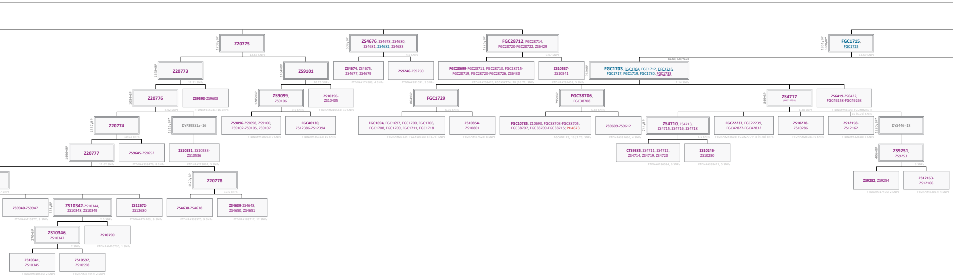
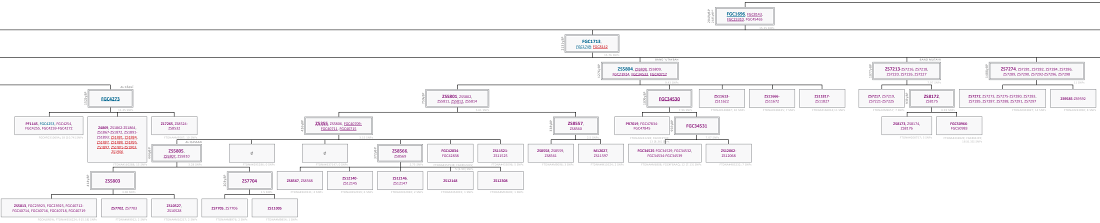
FGC#8FRWS; 1 [0.58] SNPs


1708yBP
Z20775
12.63 SNPs
1692yBP
Z20773
12.51 SNPs
1454yBP
ZS9101
10.75 SNPs
1084yBP
Z20776
8.02 SNPs
ZS9593-ZS9608
FTDNA#315031; 16 SNPs
1285yBP
ZS9099, ZS9106
9.5 SNPs
ZS10396-ZS10405
FTDNA#M10583; 10 SNPs
1357yBP
Z20774
10.03 SNPs
1315yBP*
DYF395S1a=16
ZS9096-ZS9098, ZS9100, ZS9102-ZS9105, ZS9107
FTDNA#M10063; 9 SNPs
FGC40130, ZS12386-ZS12394
FTDNA#445323; 10 SNPs
1496yBP
Z20777
11.62 SNPs
ZS9645-ZS9652
FTDNA#338476; 8 SNPs
ZS10531, ZS10533-ZS10536
FTDNA#223062; 5 SNPs
1420yBP
Z20778
10.5 SNPs
ZS9940-ZS9947
FTDNA#M10377; 8 SNPs
338yBP
ZS10342-ZS10344, ZS10348, ZS10349
2.5 SNPs
ZS12672-ZS12680
FTDNA#474103; 9 SNPs
ZS4630-ZS4638
FTDNA#338570; 9 SNPs
ZS4639-ZS4648, ZS4650, ZS4651
FTDNA#188717; 12 SNPs
270yBP
ZS10346, ZS10347
2 SNPs
ZS10790
FTDNA#M10730; 1 SNPs
ZS10341, ZS10345
FTDNA#M10565; 2 SNPs
ZS10597, ZS10598
FTDNA#357447; 2 SNPs
609yBP
ZS4676, ZS4678, ZS4680, ZS4681, ZS4682, ZS4683
4.5 SNPs
ZS4674, ZS4675, ZS4677, ZS4679
FTDNA#174503; 4 SNPs
ZS9246-ZS9250
FTDNA#381091; 5 SNPs
1226yBP
FGC28712, FGC28714, FGC28720-FGC28722, ZS6429
9.07 SNPs
FGC28699-FGC28711, FGC28713, FGC28715-FGC28719, FGC28723-FGC28726, ZS6430
FTDNA#208426; FGC#VKTT4; 28 [16.71] SNPs
ZS10537-ZS10541
FTDNA#291458; 5 SNPs
1851yBP
1820yBP*
FGC1715, FGC1725
13.69 SNPs
BANŪ MUTAYR
966yBP
FGC1703, FGC1704, FGC1712, FGC1716, FGC1717, FGC1719, FGC1730, FGC1733
7.14 SNPs
864yBP
FGC1729
6.39 SNPs
795yBP
FGC38706, FGC38708
5.88 SNPs
849yBP
ZS4717
(FGC22238)
6.28 SNPs
ZS6419-ZS6422, FGC49258-FGC49263
FTDNA#M8109; FGC#HMR9T; 10 [5.76] SNPs
FGC1694, FGC1697, FGC1700, FGC1706, FGC1708, FGC1709, FGC1711, FGC1718
FTDNA#M7334; FGC#1031A; 8 [4.78] SNPs
ZS10854-ZS10861
FTDNA#457528; 8 SNPs
FGC10785, Z10693, FGC38703-FGC38705, FGC38707, FGC38709-FGC38715; PH4673
FGC#NELE3; 13 [7.76] SNPs
ZS9609-ZS9612
FTDNA#391666; 4 SNPs
744yBP
ZS4710, ZS4713, ZS4715, ZS4716, ZS4718
5.5 SNPs
FGC22237, FGC22239, FGC42827-FGC42832
FTDNA#248603; FGC#ZAF7P; 8 [4.78] SNPs
ZS10278-ZS10286
FTDNA#M8081; 9 SNPs
ZS12158-ZS12162
FTDNA#432828; 5 SNPs
1280yBP*
DYS446=13
CTS9385, ZS4711, ZS4712, ZS4714, ZS4719, ZS4720
FTDNA#186084; 6 SNPs
ZS10246-ZS10250
FTDNA#338421; 5 SNPs
406yBP
ZS9251, ZS9253
3 SNPs
ZS9252, ZS9254
FTDNA#317405; 2 SNPs
ZS12163-ZS12166
FTDNA#452017; 4 SNPs



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FGC1696, FGC8143, FGC23310, FGC45465
15.15 SNPs
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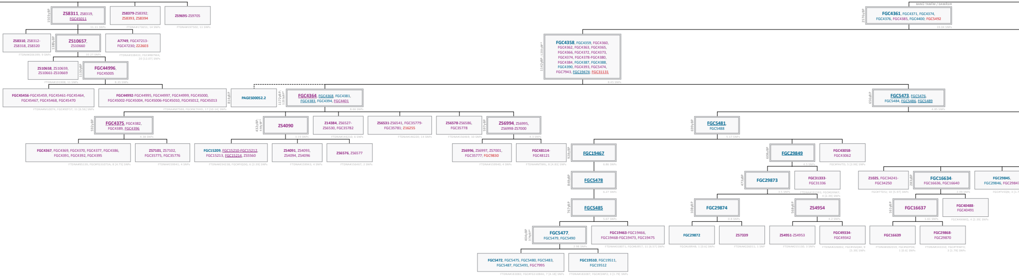
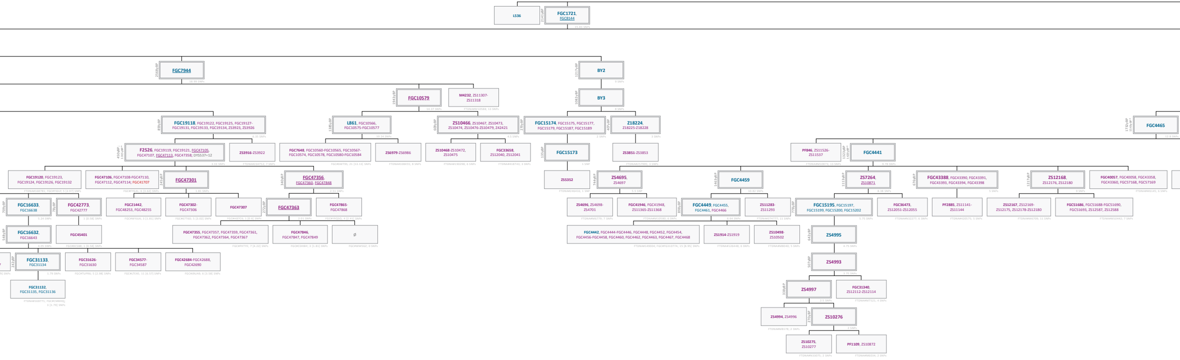
15.76 SNPs
BANŪ 'UTAYBAH
1276ybP
ZS5804, ZS5808, ZS5809, FGC23924, FGC34533, FGC40717
9.43 SNPs
BANŪ MUTAYR
1077ybP
ZS7213-ZS7216, ZS7218, ZS7220, ZS7226, ZS7227
7.97 SNPs
1488ybP
ZS7274, ZS7281, ZS7282, ZS7284, ZS7286, ZS7289, ZS7290, ZS7292-ZS7296, ZS7298
11 SNPs
AL-FĀḌLĪ
1521ybP
FGC4273
11.25 SNPs
759ybP
ZS5801, ZS5802, ZS5811, ZS5812, ZS5814
5.61 SNPs
1076ybP
FGC34530
7.96 SNPs
ZS11613-ZS11622
FTDNA#348867; 10 SNPs
ZS11666-ZS11672
FTDNA#338435; 7 SNPs
ZS11817-ZS11827
FTDNA#166034;11 SNPs
ZS7217, ZS7219, ZS7221-ZS7225
FTDNA#M9657; 7 SNPs
937ybP
ZS8172, ZS8175
6.93 SNPs
ZS7272, ZS7273, ZS7275-ZS7280, ZS7283, ZS7285, ZS7287, ZS7288, ZS7291, ZS7297
FTDNA#303827; 14 SNPs
ZS9585-ZS9592
FTDNA#223050; 8 SNPs
PF1145, FGC4253, FGC4254, FGC4255, FGC4259-FGC4272
FGC#FG31069A; 18 [10.74] SNPs
Z4869, ZS1862-ZS1864, ZS1867-ZS1872, ZS1891-ZS1893; ZS1881, ZS1884, ZS1887, ZS1888, ZS1895, ZS1897, ZS1901-ZS1903, ZS1906
FTDNA#160288; 13 SNPs
Z17265, ZS8524-ZS8532
FTDNA#M9587; 10 SNPs
426ybP
ZS355, ZS5806, FGC40709-FGC40711, FGC40715
3.15 SNPs
338ybP
ZS8557, ZS8560
2.5 SNPs
PR7019, FGC47834-FGC47845
FTDNA#243228; FGC#C2YXC; 13 [8.36] SNPs
956ybP
FGC34531
7.07 SNPs
ZS8173, ZS8174, ZS8176
FTDNA#208757; 3 SNPs
FGC50966-FGC50983
FTDNA#432829; FGC#6EJP2; 18 [6.33] SNPs
AL-HASSAN
444ybP
ZS5805, ZS5807, ZS5810
3.28 SNPs
ø
FTDNA#295286; 0 SNPs
ø
FTDNA#337147; 0 SNPs
372ybP
ZS8566, ZS8569
2.75 SNPs
FGC42834-FGC42838
FTDNA#357538; FGC#K2U4V; 5 [2.99] SNPs
ZS11521-ZS11525
FTDNA#433096; 5 SNPs
ZS8558, ZS8559, ZS8561
FTDNA#M9096; 3 SNPs
M12027, ZS11597
FTDNA#M10324; 2 SNPs
FGC34525-FGC34529, FGC34532, FGC34534-FGC34539
FTDNA#M6808; FGC#F8AAQ; 12 [7.13] SNPs
ZS12062-ZS12068
FTDNA#483232; 7 SNPs
414ybP
ZS5803
3.06 SNPs
203ybP
ZS7704
1.5 SNPs
ZS8567, ZS8568
FTDNA#360131; 2 SNPs
ZS12140-ZS12145
FTDNA#452019; 6 SNPs
ZS12146, ZS12147
FTDNA#452020; 2 SNPs
ZS12148
FTDNA#452035; 1 SNPs
ZS12308
FTDNA#M10603; 1 SNPs
ZS5813, FGC23923, FGC23925, FGC40712-FGC40714, FGC40716, FGC40718, FGC40719
FGC#L8REW; FTDNA#356224; 9 [5.18] SNPs
ZS7702, ZS7703
FTDNA#M9912; 2 SNPs
ZS10527, ZS10528
FTDNA#M10217; 2 SNPs
ZS7705, ZS7706
FTDNA#M8976; 2 SNPs
ZS11005
FTDNA#M9854; 1 SNPs


1503yBP
ZS8311, ZS8319, FGC45011
11.11 SNPs
ZS8379-ZS8392; ZS8393, ZS8394
FTDNA#173651; 14 SNPs
ZS9695-ZS9705
FTDNA#197502; 11 SNPs
BANŪ TAMĪM / DAWĀSIR
2576yBP
FGC4361, FGC4371, FGC4374, FGC4376, FGC4385, FGC4400; FGC5492
19.04 SNPs
ZS8310, ZS8312-ZS8318, ZS8320
FTDNA#206399; 9 SNPs
1383yBP
ZS10657, ZS10660
10.27 SNPs
A7749, FGC47213-FGC47230; Z22603
FTDNA#338433; FGC#RB7MA; 20 [12.07] SNPs
1142yBP; 1233yBP*
FGC4358, FGC4359, FGC4360, FGC4362, FGC4363, FGC4365, FGC4366, FGC4372, FGC4373, FGC4374, FGC4378-FGC4380, FGC4384, FGC4387, FGC4388, FGC4390, FGC4393, FGC5474, FGC7943, FGC19474; FGC31131
8.45 SNPs
ZS10658, ZS10659, ZS10661-ZS10669
FTDNA#191908; 11 SNPs
1130yBP
FGC44996, FGC45005
8.35 SNPs
FGC45456-FGC45459, FGC45461-FGC45464, FGC45467, FGC45468, FGC45470
FTDNA#M10074; FGC#92FS7; 11 [6.56] SNPs
FGC44992-FGC44995, FGC44997, FGC44999, FGC45000, FGC45002-FGC45004, FGC45006-FGC45010, FGC45012, FGC45013
FTDNA#M7588; FGC#W7HKD; 17 [10.14] SNPs
814yBP
PAGES00052.2
1172yBP; 1233yBP*
FGC4364, FGC4368, FGC4381, FGC4383, FGC4394, FGC4401
8.66 SNPs
656yBP
FGC5473, FGC5476, FGC5484, FGC5486, FGC5489
4.85 SNPs
592yBP
FGC4375, FGC4382, FGC4389, FGC4396
4.38 SNPs
432yBP; 444yBP*
ZS4090
3.19 SNPs
Z14384, ZS6527-ZS6530, FGC35782
FTDNA#146210; 6 SNPs
ZS6531-ZS6541, FGC35779-FGC35781; Z16255
FTDNA#146220; 14 SNPs
ZS6578-ZS6586, FGC35778
FTDNA#156469; 10 SNPs
597yBP
ZS6994, ZS6995, ZS6998-ZS7000
4.3 SNPs
699yBP
FGC5481, FGC5488
5.17 SNPs
FGC4367, FGC4369, FGC4370, FGC4377, FGC4386, FGC4391, FGC4392, FGC4395
FTDNA#95139; FGC#FG31073A; 8 [4.75] SNPs
ZS7101, ZS7102, FGC35775, FGC35776
FTDNA#159941; 4 SNPs
FGC15209, FGC15210-FGC15212, FGC15213, FGC15214, ZS5560
FTDNA#234238; FGC#FIQDG; 6 [2.39] SNPs
ZS4091, ZS4093, ZS4094, ZS4096
FTDNA#159943; 4 SNPs
ZS6576, ZS6577
FTDNA#156467; 2 SNPs
ZS6996, ZS6997, ZS7001, FGC35777; FGC9830
FTDNA#159940; 4 SNPs
FGC48114-FGC48121
FTDNA#MTBRL; 8 [4.83] SNPs
928yBP
FGC19467
6.86 SNPs
608yBP
FGC29849
4.5 SNPs
FGC43058-FGC43062
FGC#FAVTD; 5 [2.98] SNPs
Z1025, FGC34241-FGC34250
FGC#7TDSJ; 10 [5.97] SNPs
283yBP
FGC16634-FGC16636, FGC16640
2.09 SNPs
FGC29845, FGC29846, FGC2984
FGC#TVEQN; 3 [1.7
848yBP
FGC5478
6.27 SNPs
473yBP
FGC29873
3.5 SNPs
FGC31333-FGC31336
FTDNA#191593; FGC#GRNKF; 4 [2.39] SNPs
FGC40488-FGC40491
FGC#ANNKQ; 4 [2.39] SNPs
767yBP
FGC5485
5.67 SNPs
108yBP
FGC29874
0.8 SNPs
568yBP
ZS4954
4.2 SNPs
161yBP
FGC16637
1.61 SNPs
404yBP; 376yBP*
FGC5477, FGC5479, FGC5490
2.98 SNPs
FGC19463-FGC19466, FGC19468-FGC19473, FGC19475
FTDNA#318071; FGC#8J957; 11 [6.57] SNPs
FGC29872
FGC#U8RH8; 1 [0.6] SNPs
ZS7339
FTDNA#226011; 1 SNP
ZS4951-ZS4953
FTDNA#215130; 3 SNPs
FGC49334-FGC49342
FTDNA#226002; FGC#VGQB4; 9 [5.39] SNPs
FGC16639
FTDNA#282019; FGC#S0PO6; 1 [0.6] SNPs
FGC29868-FGC29870
FTDNA#343310; FGC#TRWF3; 3 [1.79] SNPs
FGC5472, FGC5475, FGC5480, FGC5483, FGC5487, FGC5491, FGC7995
FTDNA#183083; FGC#FG31084A; 7 [4.18] SNPs
FGC19510, FGC19511, FGC19512
FTDNA#183087; FGC#CSNP2; 3 [1.79] SNPs


L536
2141ybp
FGC1721, FGC8144
15.83 SNPs
2568ybp
FGC7944
18.99 SNPs
1217ybp
BY2
9 SNPs
1943ybp
FGC10579
14.37 SNPs
M4232, ZS11307-ZS11318
FTDNA#M10588; 13 SNPs
1082ybp
BY3
8 SNPs
899ybp
FGC19118, FGC19122, FGC19125, FGC19127-FGC19131, FGC19133, FGC19134, ZS3923, ZS3926
6.35 SNPs
1385ybp
L861, FGC10566, FGC10575-FGC10577
10.24 SNPs
609ybp
ZS10466, ZS10467, ZS10473, ZS10474, ZS10476-ZS10479, Z42421
4.5 SNPs
270ybp
FGC15174, FGC15175, FGC15177, FGC15179, FGC15187, FGC15189
2 SNPs
407ybp
Z18224, Z18225-Z18228
3 SNPs
1732ybp; 1543ybp*
FGC4465
12.8 SNPs
450ybP; 1315ybP*
F2526, FGC19119, FGC19121, FGC47105, FGC47107, FGC47113, FGC47358; DYS537=12
3.33 SNPs
ZS3916-ZS3922
FTDNA#234752; 7 SNPs
FGC7648, FGC10560-FGC10565, FGC10567-FGC10574, FGC10578, FGC10580-FGC10584
FGC#6WT9S; 21 [13.13] SNPs
ZS6979-ZS6986
FTDNA#338455; 8 SNPs
ZS10468-ZS10472, ZS10475
FTDNA#190298; 6 SNPs
FGC33658, ZS12040, ZS12041
FTDNA#418743; 3 SNPs
135ybP
FGC15173
1 SNP
ZS3851-ZS3853
FTDNA#257995; 3 SNPs
PF846, ZS11526-ZS11537
FTDNA#M10873; 13 SNPs
1323ybP; 1420ybP*
FGC4441
9.78 SNPs
FGC19120, FGC19123, FGC19124, FGC19126, FGC19132
FTDNA#168781; FGC#YIDLY; 5 [2.97] SNPs
FGC47106, FGC47108-FGC47110, FGC47112, FGC47114; FGC41707
FGC#FYG4L; 6 [3.62] SNPs
245ybP
FGC47301
1.81 SNPs
340ybP
FGC47356, FGC47360, FGC47848
2.51 SNPs
ZS5352
FTDNA#246416; 1 SNP
744ybP
ZS4695, ZS4697
5.5 SNP
1463ybP
FGC4459
10.82 SNPs
1113ybP
ZS7264, ZS10871
8.38 SNPs
676ybP
FGC43388, FGC43390, FGC43391, FGC43393, FGC43394, FGC43398
5 SNPs
1217ybP
ZS12168, ZS12176, ZS12180
9 SNPs
FGC40057, FGC40058, FGC43358, FGC43360, FGC57168, FGC57169
FTDNA#M6145; 6 SNPs
709ybP
FGC16633, FGC16638
5.24 SNPs
78ybP
FGC42773, FGC42777
1 [0.58] SNPs
FGC21442, FGC48253, FGC48255
FGC#WYJUK; 3 [1.81] SNPs
FGC47302-FGC47306
FGC#67T6D; 5 [3.02] SNPs
FGC47307
FGC#H87C6; 1 [0.6] SNPs
272ybP
FGC47363
2.01 SNPs
FGC47865-FGC47868
FGC#YRQSQ; 4 [2.41] SNPs
ZS4696, ZS4698-ZS4701
FTDNA#M6779; 7 SNPs
FGC41946, FGC41948, ZS11365-ZS11368
FTDNA#M10580; 6 SNPs
898ybP
FGC4449, FGC4455, FGC4461, FGC4466
6.64 SNPs
ZS11283-ZS11293
FTDNA#374777; 11 SNPs
778ybP
FGC15195, FGC15197, FGC15199, FGC15200, FGC15202
5.75 SNPs
FGC36473, ZS12051-ZS12055
FTDNA#N32277; 6 SNPs
PF2885, ZS11141-ZS11144
FTDNA#420575; 5 SNPs
ZS12167, ZS12169-ZS12175, ZS12178-ZS12180
FTDNA#M6709; 11 SNPs
FGC51686, FGC51688-FGC51690, FGC51693, ZS12587, ZS12588
FTDNA#M10442; 7 SNPs
548ybP
FGC16632, FGC16643
4.05 SNPs
FGC45401
FGC#8CS88; 1 [0.58] SNPs
FGC47355, FGC47357, FGC47359, FGC47361, FGC47362, FGC47364, FGC47367
FGC#PHTYE; 7 [4.22] SNPs
FGC47846, FGC47847, FGC47849
FGC#CDH8H; 3 [1.81] SNPs
ø
FGC#WMSGZ; 0 SNPs
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FTDNA#149004; FGC#FG31077A; 15 [8.95] SNPs
ZS1914-ZS1919
FTDNA#126448; 6 SNPs
ZS10498-ZS10502
FTDNA#M8040; 5 SNPs
642ybP
ZS4995
4.75 SNPs
242ybP
FGC31133, FGC31134
1.79 SNPs
FGC31626-FGC31630
FGC#TUPR6; 5 [2.98] SNPs
FGC34577-FGC34587
FGC#LTEXE; 11 [6.57] SNPs
FGC42684-FGC42688, FGC42690
FGC#J9UA9; 6 [3.58] SNPs
507ybP
ZS4993
3.75 SNPs
FGC31132, FGC31135, FGC31136
FTDNA#168771; FGC#CM8HQ; 3 [1.79] SNPs
338ybP
ZS4997
2.5 SNPs
FGC31340, ZS12112-ZS12114
FTDNA#M7521; 4 SNPs
ZS4994, ZS4996
FTDNA#M8178; 2 SNPs
270ybP
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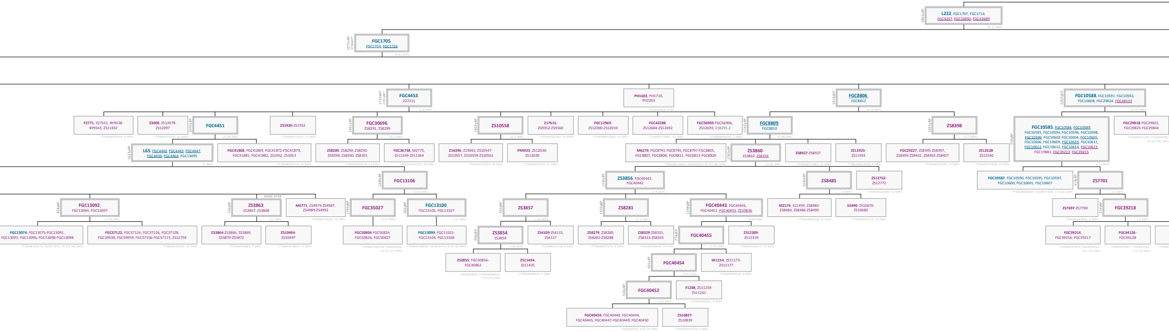
2 SNPs
ZS10275, ZS10277
FTDNA#N33075; 2 SNPs
PF1109, ZS10872
FTDNA#M6034; 2 SNPs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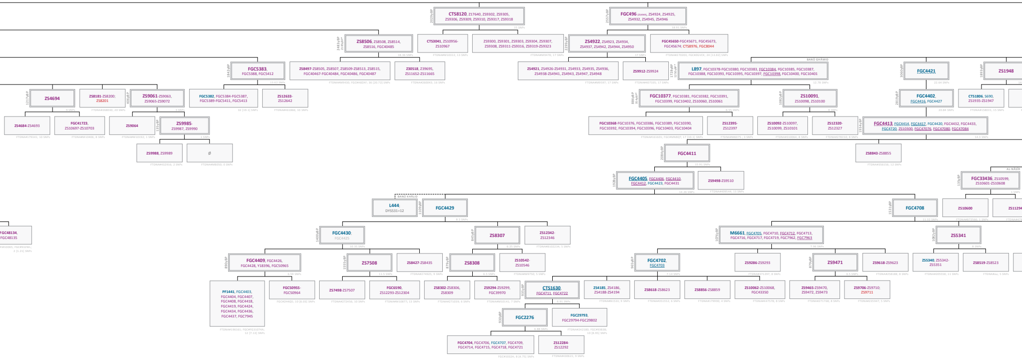
16.82 SNPs
1732ybP 2155ybP*
FGC4453, Z27211
12.8 SNPs
PH1603, PH1710, PH2263
PH2014#pal-5420
1919ybP
FGC8806, FGC8812
14.19 SNPs
2207ybP
FGC10588, FGC10591, FGC10592, FGC10608, FGC29824, FGC48133
16.32 SNPs
F2771, Z27531, BY9538-BY9543, ZS11832
FTDNA#304594; 9 SNPs
Z3000, ZS12078-ZS12097
FTDNA#193305; 21 SNPs
2040ybP
FGC4451
15.08 SNPs
ZS1920-ZS1932
FTDNA#E14554; 13 SNPs
1961ybP
FGC30696, ZS8291, ZS8299
14.5 SNPs
1826ybP
ZS10558
13.5 SNPs
Z17615, ZS9352-ZS9360
FTDNA#182662; 10 SNPs
FGC12969, ZS12000-ZS12010
FTDNA#M10993; 12 SNPs
FGC42288, ZS12684-ZS12692
FTDNA#179987; 10 SNPs
FGC56903-FGC56906, ZS12693; Z18293.2
FTDNA#448231; 5 SNPs
1742ybP
FGC8809, FGC8810
12.88 SNPs
1691ybP
ZS8398
12.5 SNPs
558ybP
FGC10585, FGC10586, FGC10589, FGC10593, FGC10594, FGC10596, FGC10598, FGC10599, FGC10602-FGC10604, FGC10605, FGC10606, FGC10609, FGC10610, FGC10611, FGC10612, FGC10613, FGC10614, FGC10615, FGC19881, FGC39213, FGC39215
4.13 SNPs
FGC29818-FGC29823, FGC29825-FGC29844
FTDNA#141336; FGC#MAZZD; 26 [15.45] SNPs
1623ybP
L65, FGC4440, FGC4443, FGC4447, FGC4450, FGC4464, FGC13095
12 SNPs
FGC41868, FGC41869, FGC41872-FGC41879, FGC41881, FGC41882, ZS1052, ZS1053
FTDNA#204332; 14 SNPs
ZS8289, ZS8290, ZS8292-ZS8298, ZS8300, ZS8301
FTDNA#304574; 11 SNPs
FGC36738, M2775, ZS11349-ZS11364
FTDNA#452722; 18 SNPs
Z16396, Z19042, ZS10547-ZS10557, ZS10559-ZS10561
FTDNA#279259; 16 SNPs
PR4923, ZS12030-ZS12039
FTDNA#193376; 11 SNPs
M6279, FGC8791-FGC8795, FGC8797-FGC8805, FGC8807, FGC8808, FGC8811, FGC8813-FGC8820
FTDNA#223061; FGC#45NJY; 26 [15.58] SNPs
1765ybP
ZS3860-ZS3862, ZS8332
13.05 SNPs
ZS8927-ZS8937
FTDNA#376881; 11 SNPs
ZS11925-ZS11933
FTDNA#M10839; 9 SNPs
FGC29227, ZS8395-ZS8397, ZS8399-ZS8401, ZS8403-ZS8407
FTDNA#243326; 12 SNPs
ZS12528-ZS12540
FTDNA#179340; 13 SNPs
1299ybP
FGC13106
9.61 SNPs
1542ybP
ZS3856, FGC40441, FGC40442
11.4 SNPs
1623ybP
ZS8485
12 SNPs
ZS12762-ZS12772
FTDNA#163090; 11 SNPs
FGC10587, FGC10590, FGC10595, FGC10597, FGC10600, FGC10601, FGC10607
FTDNA#290893; FGC#HTFWW; 7 [4.16] SNPs
419ybP
ZS7701
3.1 SNPs
858ybP
FGC13092, FGC13094, FGC13097
13.74 SNPs
BANŪ ZA'ĀB
744ybP
ZS3863, ZS3867, ZS3868
5.5 SNPs
M4771, ZS4979-ZS4987, ZS4989-ZS4992
FTDNA#179429; 15 SNPs
1795ybP
FGC35027
13.27 SNPs
482ybP
FGC13100, FGC13105, FGC13107
3.57 SNPs
925ybP
ZS3857
6.84 SNPs
1555ybP
ZS8281
11.5 SNPs
1198ybP
FGC40443, FGC40446, FGC40451, FGC40453, ZS10836
8.86 SNPs
M2174, S11459, ZS8480-ZS8484, ZS8486-ZS8490
FTDNA#M9294; 12 SNPs
S5490, ZS10670-ZS10680
FTDNA#442210; 12 SNPs
ZS7697-ZS7700
FTDNA#303968; 4 SNPs
216ybP
FGC39218
1.6 SNPs
FGC13074, FGC13075-FGC13091, FGC13093, FGC13096, FGC13098-FGC13098
FTDNA#143275; FGC#T22YS; 21 [12.48] SNPs
FGC37122, FGC37124, FGC37126, FGC37128, FGC39938, FGC39939, FGC57106-FGC57113, ZS12759
FTDNA#193535; 15 SNPs
ZS3864-ZS3866, ZS3869, ZS3870-ZS3872
FTDNA#M6685; 7 SNPs
ZS10494-ZS10497
FTDNA#178937; 4 SNPs
FGC50804-FGC50824, FGC50826, FGC50827
FTDNA# 469109; FGC#34DSZ; 22 [13.27] SNPs
FGC13099, FGC13101-FGC13104, FGC13108
FTDNA#168918; FGC#UEHYU; 6 [4.18] SNPs
498ybP
ZS3854, ZS3859
3.69 SNPs
ZS4109-ZS4115, ZS4117
FTDNA#202136; 8 SNPs
ZS8279, ZS8280, ZS8282-ZS8288
FTDNA#207876; 9 SNPs
ZS8329-ZS8331, ZS8333-ZS8343
FTDNA#304642; 14 SNPs
774ybP
FGC40455
5.72 SNPs
ZS12309-ZS12319
FTDNA#193517; 11 SNPs
FGC39214, FGC39216, FGC39217
FTDNA#313970; FGC#UMULC; 3 [1.73] SNPs
FGC44126-FGC44128
FTDNA#318077; FGC#VVQLK; 3 [1.73] SNPs
ZS3855, FGC40856-FGC40863
FGC#NFNQT; FTDNA#M8919; 9 [5.37] SNPs
ZS11434, ZS11435
FTDNA#488411; 2 SNPs
601ybP
FGC40454
4.44 SNPs
SK1154, ZS11173-ZS11177
FTDNA#M9926; 6 SNPs
526ybP
FGC40452
3.87 SNPs
F1288, ZS11259-ZS11261
FTDNA#M8291; 4 SNPs
FGC40439, FGC40440, FGC40444, FGC40445, FGC40447-FGC40449, FGC40450
FGC#SPRLQ; 8 [4.77] SNPs
ZS10837-ZS10839
FTDNA#187549; 3 SNPs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15 SNPs
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FGC496, ZS4924, ZS4925, ZS4932, ZS4945, ZS4946
18.91 SNPs
2483yBP 2185yBP*
ZS8506, ZS8508, ZS8514, ZS8516, FGC40485
18.36 SNPs
CTS3041, ZS10956-ZS10967
FTDNA#M10313; 13 SNPs
ZS9300, ZS9301, ZS9303, ZS9304, ZS9307, ZS9308, ZS9311-ZS9316, ZS9319-ZS9323
FTDNA#M9478; 17 SNPs
2299yBP
ZS4922, ZS4923, ZS4934, ZS4937, ZS4942, ZS4944, ZS4950
17 SNPs
FGC45650-FGC45671, FGC45673, FGC45674; CTS8976, FGC8044
FTDNA#270203; FGC#ZGVCK; 24 [13.82] SNPs
1842yBP
FGC5383, FGC5388, FGC5412
13.62 SNPs
ZS8497-ZS8505, ZS8507, ZS8509-ZS8513, ZS8515, FGC40467-FGC40484, FGC40486, FGC40487
FTDNA#M9430; FGC#A8ZAF; 36 [20.72] SNPs
Z30518, Z39695, ZS11652-ZS11665
FTDNA#260043; 16 SNPs
ZS4921, ZS4926-ZS4931, ZS4933, ZS4935, ZS4936, ZS4938-ZS4941, ZS4943, ZS4947, ZS4948
FTDNA#M9597; 17 SNPs
ZS9912-ZS9924
FTDNA#407335; 17 SNPs
BANŪ GHĀMID
1728yBP 1250yBP*
L897, FGC10378-FGC10380, FGC10383, FGC10384, FGC10385, FGC10387, FGC10388, FGC10393, FGC10395, FGC10397, FGC10398, FGC10400, FGC10401
12.78 SNPs
3060yBP
FGC4421
22.64 SNPs
1893yBP
ZS1948
1217yBP
ZS4694
9 SNPs
ZS8181-ZS8200; ZS8201
FTDNA#268030; 20 SNPs
406yBP
ZS9061-ZS9063, ZS9065-ZS9072
3 SNPs
FGC5382, FGC5384-FGC5387, FGC5389-FGC5411, FGC5413
32 [19.1] SNPs
ZS12633-ZS12642
FTDNA#461866; 10 SNPs
886yBP 354yBP*
FGC10377, FGC10381, FGC10382, FGC10391, FGC10399, FGC10402, ZS10060, ZS10061
6.55 SNPs
1082yBP
ZS10091, ZS10098, ZS10100
8 SNPs
2819yBP
FGC4402, FGC4416, FGC4427
20.84 SNPs
CTS1806, S690, ZS1935-ZS1947
FTDNA#158015; 15 SNPs
ZS4684-ZS4693
FTDNA#179341; 10 SNPs
FGC41723, ZS10697-ZS10703
FTDNA#M10406; 8 SNPs
ZS9064
FTDNA#M10192; 1 SNPs
135yBP
ZS9985-ZS9987, ZS9990
1 SNPs
FGC10368-FGC10376, FGC10386, FGC10389, FGC10390, FGC10392, FGC10394, FGC10396, FGC10403, FGC10404
FTDNA#161601; FGC#MNBQT; 17 [10.1] SNPs
ZS12395-ZS12397
FTDNA#M6075 ; 3 SNPs
ZS10092-ZS10097, ZS10099, ZS10101
FTDNA#310064; 8 SNPs
ZS12320-ZS12327
FTDNA#278150; 8 SNPs
1934yBP
FGC4413, FGC4414, FGC4417, FGC4420, FGC4432, FGC4433, FGC4720, ZS10300, FGC47076, FGC47080, FGC47084
14.3 SNPs
ZS9988, ZS9989
FTDNA#432916; 2 SNPs
ø
FTDNA#M8050; 0 SNPs
2084yBP
FGC4411
15.91 SNPs
ZS8843-ZS8855
FTDNA#356156; 12 SNPs
1928yBP
FGC4405, FGC4406, FGC4410, FGC4412, FGC4423, FGC4431
14.26 SNPs
ZS9498-ZS9510
FTDNA#409544; 13 SNPs
AL-NĀSIR
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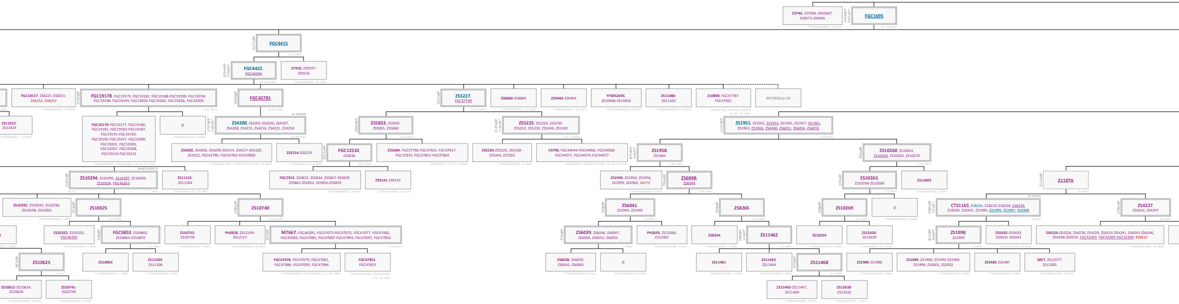
1 SNPs
BANŪ KHĀLID
L444; DYS531=12
1109yBP
FGC4429
8.2 SNPs
1531yBP
FGC4708
11.32 SNPs
ZS10600
FTDNA#872566; 1 SNPs
FGC48134, FGC48135
#M10065; FGC#932WL; 2 [1.21] SNPs
1400yBP
FGC4430; FGC4425
10.35 SNPs
845yBP
ZS8307
6.25 SNPs
ZS12342-ZS12346
FTDNA#B102234; 5 SNPs
1076yBP
M6661, FGC4705, FGC4710, FGC4712, FGC4713, FGC4716, FGC4717, FGC4719, FGC7962, FGC7963
7.96 SNPs
1082yBP
ZS5341
8 SNPs
890yBP
FGC4409, FGC4426, FGC4428, Y18396, FGC50965
6.59 SNPs
1555yBP
ZS7508
11.5 SNPs
ZS8427-ZS8435
FTDNA#274925; 9 SNPs
879yBP
ZS8308
6.5 SNPs
ZS10542-ZS10546
FTDNA#M9750; 5 SNPs
965yBP
FGC4702, FGC4703
7.14 SNPs
ZS9286-ZS9293
FTDNA#371297; 8 SNPs
879yBP
ZS9471
6.5 SNPs
ZS9618-ZS9623
FTDNA#258188; 8 SNPs
ZS5340, ZS5342-ZS5351
FTDNA#205558; 11 SNPs
ZS8519-ZS8523
FTDNA#ou; 5 SNPs
PF1441, FGC4403, FGC4404, FGC4407, FGC4408, FGC4418, FGC4419, FGC4424, FGC4434, FGC4436, FGC4437, FGC7945
FTDNA#196161; FGC#FG31074A; 12 [7.13] SNPs
FGC50955-FGC50964
FGC#2H4Q5; 10 [6.03] SNPs
ZS7498-ZS7507
FTDNA#272456; 10 SNPs
FGC6590, ZS12293-ZS12304
FTDNA#M10877; 13 SNPs
ZS8302-ZS8306, ZS8309
FTDNA#271039; 6 SNPs
ZS9294-ZS9299, FGC39970
FTDNA#M10141; 7 SNPs
935yBP
CTS1630, FGC4711, FGC4722
6.91 SNPs
ZS4185, ZS4186, ZS4188-ZS4194
FTDNA#81533; 9 SNPs
ZS8618-ZS8623
FTDNA#351552; 6 SNPs
ZS8856-ZS8859
FTDNA#179990; 4 SNPs
ZS10062-ZS10068, FGC43350
FTDNA#447578; 8 SNPs
ZS9465-ZS9470, ZS9472, ZS9473
FTDNA#271768; 8 SNPs
ZS9706-ZS9710; ZS9711
FTDNA#235947; 5 SNPs
930yBP
FGC2276
6.88 SNPs
FGC29793, FGC29794-FGC29802
FTDNA#242180; FGC#93838; 10 [8.95] SNPs
FGC4704, FGC4706, FGC4707, FGC4709, FGC4714, FGC4715, FGC4718, FGC4721
FGC#1032A; 8 [4.75] SNPs
ZS12284-ZS12292
FTDNA#430621; 9 SNPs


Z3744, Z15956, M10667, ZS9073-ZS9095
FTDNA#420887; 26 SNPs
3144ybP 2915ybP*
FGC1695
23.25 SNPs
3177ybP
FGC4415
23.5 SNPs
3244ybP 3784ybP*
FGC4422, FGC46294
23.949 SNPs
Z7918, ZS9197-ZS9216
FTDNA#M8935; 21 SNPs
FGC18157, ZS8221-ZS8251; ZS8252, ZS8253
FTDNA#183951; 32 SNPs
1130ybP
FGC19178, FGC19179, FGC19182, FGC19188-FGC19190, FGC19194, FGC19198, FGC19199, FGC19202-FGC19204, FGC19206, FGC19209
8.36 SNPs
3360ybP
FGC42781
24.85 SNPs
3321ybP
ZS5227, FGC37799
24.55 SNPs
ZS8860-ZS8884
FTDNA#371971; 25 SNPs
ZS9443-ZS9464
FTDNA#138567; 22 SNPs
YFS052695, ZS10406-ZS10426
FTDNA#M10643; 22 SNPs
ZS11080-ZS11103
FTDNA#M10020; 24 SNPs
Z10800, FGC47787-FGC47821
FGC#HFFZQ; FTDNA# 310060; 36 [21.72] SNPs
DYF395S1a=14
ZS11012-ZS11024
FTDNA#M8031; 13 SNPs
FGC19170-FGC19177, FGC19180, FGC19181, FGC19183-FGC19187, FGC19191-FGC19193, FGC19195-FGC19197, FGC19200, FGC19201, FGC19205, FGC19207, FGC19208, FGC19210-FGC19212
FTDNA#M8705; FGC#9Q3NY; 28 [16.71] SNPs
ø
FTDNA#193321; 0 SNPs
AL-MARRI
1737ybP 1420ybP*
ZS4200, ZS4201-ZS4205, ZS4207, ZS4208, ZS4215, ZS4216, ZS4221, Z24250
12.85 SNPs
2894ybP
ZS5833, ZS5835, ZS5855, ZS5860
21.4 SNPs
2125ybP; 1138ybP*
ZS5225, ZS5226, ZS5230-ZS5232, ZS5239, ZS5240, ZS5242
15.71 SNPs
1137ybP
ZS1951, ZS1952, ZS1954, ZS1955, ZS1957, ZS1961, ZS1963, ZS1965, ZS6040, ZS6051, ZS6054, ZS6055
8.41 SNPs
ZS4202, ZS4206, ZS4209-ZS4214, ZS4217-ZS4220, ZS4222, FGC42780, FGC42782-FGC42800
FTDNA#327764; FGC#L73XU; 34 [20.29] SNPs
ZS5214-ZS5219
FTDNA#214112; 6 SNPs
2637ybP
FGC12532, ZS5836
19.5 SNPs
Z25684, FGC37786-FGC37815, FGC37817-FGC37819, FGC37822-FGC37824
FGC#COLPT; 37 [21.3] SNPs
ZS5224-ZS5226, ZS5228-ZS5244, ZS7265
FTDNA#190294; 13 SNPs
V3796, FGC44044-FGC44066, FGC44068-FGC44071, FGC44074-FGC44077
FGC#DY2KE; FTDNA# 207601; 32 [18.42] SNPs
871ybP; 934ybP*
ZS1958, ZS1964
6.44 SNPs
456ybP
ZS10260, ZS10261, ZS10263, ZS10265, ZS10270
3.38 SNPs
BANŪ KHĀLID
1187ybP
ZS10294, ZS10295, ZS10297, ZS10299, ZS10324, FGC46263
8.78 SNPs
ZS11152-ZS11164
FTDNA#M7124; 13 SNPs
FGC2913, ZS5832, ZS5834, ZS5837-ZS5839, ZS5841-ZS5854, ZS5856-ZS5859
FTDNA#M8000; 24 SNPs
ZS9141-ZS9155
FTDNA#173648; 15 SNPs
ZS1949, ZS1950, ZS1956, ZS1959, ZS1962; S4272
FTDNA#238638; 5 SNPs
795ybP
ZS6048, ZS6049
5.88 SNPs
237ybP
ZS10262, ZS10266-ZS10268
1.75 SNPs
ZS12602
FTDNA#M6750; 1 SNPs
3111ybP
Z11076
23 SNPs
ZS10292, ZS10293, ZS10296, ZS10298, ZS10301
FTDNA#169461; 5 SNPs
913ybP
ZS10325
6.75 SNPs
1400ybP
ZS10740
10.35 SNPs
744ybP
ZS6041, ZS1944, ZS1945
5.5 SNPs
304ybP
ZS8265
2.25 SNPs
338ybP
ZS10269
2.5 SNPs
ø
FTDNA#366509; 0 SNPs
AL-HAJRI
1082ybP 552ybP*
CTS1165, Z18231, Z18232-Z18238, Z18239, Z18240, Z18241, ZS1985, ZS1995, ZS1997, ZS2000
8 SNPs
2705ybP
ZS4227, ZS4242, ZS4247
20 SNPs
ZS10322, ZS10323, FGC46265
FTDNA#140005; 2 SNPs
338ybP
FGC5853, ZS10862, ZS10864-ZS10870
2.5 SNPs
ZS10733-ZS10739
FTDNA#256758; 7 SNPs
PH3828, ZS12149-ZS12157
FTDNA#198618; 10 SNPs
367ybP
M7667, FGC46295, FGC47073-FGC47075, FGC47077, FGC47082, FGC47083, FGC47085, FGC47087-FGC47094, FGC47097, FGC47850
2.72 SNPs
270ybP
ZS6039, ZS6046, ZS6047, ZS6050, ZS6052, ZS6053
2 SNPs
PH2693, ZS12060, ZS12061
FTDNA#412208; 3 SNPs
ZS8264
FTDNA#235231; 1 SNPs
388ybP; 118ybP*
ZS11462
2.5 SNPs
ZS10264
FTDNA#372216; 1 SNPs
ZS12626-ZS12629
FTDNA#M6751; 4 SNPs
811ybP 328ybP*
ZS1998, ZS1999
6 SNPs
ZS5635-ZS5639, ZS5641-ZS5643
FTDNA#231694; 8 SNPs
ZS4224-ZS4226, ZS4228, ZS4229, ZS4231-ZS4241, ZS4243-ZS4246, ZS4248-ZS4254, FGC32303, FGC32305-FGC32309; ZS9810
FTDNA#303660; 33 SNPs
947ybP
ZS10625
7 SNPs
ZS10863
FTDNA#M10435; 1 SNPs
ZS11303-ZS11306
FTDNA#449665; 4 SNPs
FGC47078, FGC47079, FGC47081, FGC47086, FGC47095, FGC47096
FTDNA#325037; FGC#YJMSP; 6 [3.45] SNPs
FGC47851-FGC47853
FTDNA#291186; FGC#UUSQZ; 3 [1.73] SNPs
ZS6038, ZS6039, ZS6042, ZS6043
FTDNA#M5060; 4 SNPs
ø
FTDNA#M6841; 0 SNPs
ZS11461
FTDNA#274836; 1 SNPs
ZS11463, ZS11464
FTDNA#274842; 2 SNPs
473ybP
ZS11468
3.5 SNPs
ZS1986-ZS1988
FTDNA#246362; 3 SNPs
ZS1989, ZS1990, ZS1992-ZS1994, ZS1996, ZS2001, ZS2002
FTDNA#M8775; 8 SNPs
ZS5485-ZS5487
FTDNA#M9190; 3 SNPs
S857, ZS12577-ZS12585
FTDNA#M10445; 10 SNPs
ZS10621-ZS10624, ZS10626
FTDNA#M10325; 6 SNPs
ZS10741-ZS10749
FTDNA#196730; 9 SNPs
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FTDNA#282096; 4 SNPs
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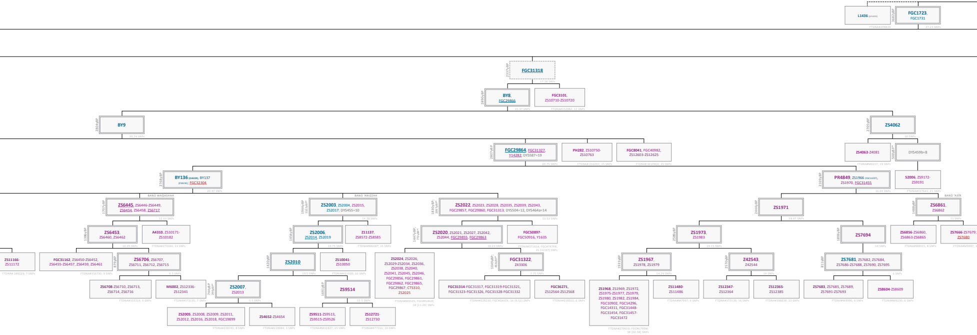
FTDNA#274197; 3 SNPs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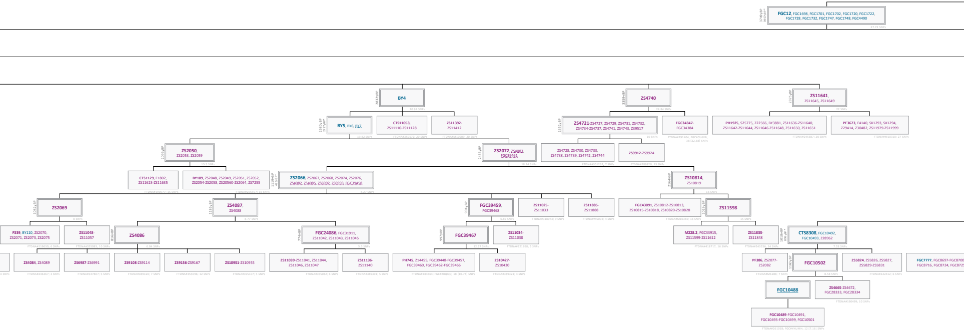
2337yBP
FGC31318
17.28 SNPs
2890yBP
BY8, FGC29866
21.37 SNPs
FGC3101, ZS10710-ZS10720
FTDNA#352982; 12 SNPs
2804yBP
BY9
20.74 SNPs
2705yBP
ZS4062
20 SNPs
2807yBP
FGC29864, FGC31327, Y14282; DYS587=19
20.75 SNPs
PH282, ZS10750-ZS10763
FTDNA# 216267; 15 SNPs
FGC8041, FGC40982, ZS12603-ZS12625
FTDNA# M10964; 25 SNPs
ZS4063-Z4081
FTDNA#M6217; 19 SNPs
500yBP*
DYS459b=8
2768yBP
BY136, BY137; FGC32304
20.47 SNPs
2169yBP
PR4849, ZS1966 (FGC14297), ZS1970, FGC31455
16.04 SNPs
S2006, ZS9172-ZS9191
FTDNA#337643; 21 SNPs
BANŪ WAQASHAH
BANŪ 'ANIZZAH
BANŪ 'ASĪR
1707yBP
ZS6445, ZS6446-ZS6449, ZS6454, ZS6458, ZS6717
12.63 SNPs
1944yBP
1322yBP*
ZS2003, ZS2004, ZS2015, ZS2017; DYS455=10
14.28 SNPs
1830yBP;
2097yBP*
ZS2022, ZS2023, ZS2028, ZS2035, ZS2039, ZS2043, FGC29857, FGC29860, FGC31313; DYS504=12, DYS464a=14
13.53 SNPs
2444yBP
ZS1971
18.07 SNPs
1488yBP
ZS6861, ZS6862
11 SNPs
1386yBP
ZS6453, ZS6460, ZS6462
10.25 SNPs
A4310, ZS10171-ZS10182
FTDNA#374344; 13 SNPs
1454yBP
ZS2006, ZS2014, ZS2019
10.75 SNPs
Z11137, ZS8572-ZS8585
FTDNA#M6487; 15 SNPs
1447yBP;
772yBP*
ZS2020, ZS2021, ZS2027, ZS2042, ZS2044, FGC29855, FGC29863
10.23 SNPs
FGC50897-FGC50916, Y1635
FTDNA#371614; FGC#7K7PR; 21 [12.67] SNPs
2583yBP
ZS1973, ZS1983
19.15 SNPs
1893yBP
ZS7694
14 SNPs
ZS6856-ZS6860, ZS6863-ZS6865
FTDNA#M8915; 8 SNPs
ZS7666-ZS7679; ZS7680
FTDNA#M9997; 1
ZS11166-ZS11172
FTDNA# 289229; 7 SNPs
FGC31162, ZS6450-ZS6452, ZS6455-ZS6457, ZS6459, ZS6461
FTDNA#356730; 9 SNPs
879yBP
ZS6706, ZS6707, ZS6711, ZS6712, ZS6715
6.5 SNPs
1420yBP
ZS2010
10.5 SNPs
ZS10041-ZS10050
FTDNA#431030; 10 SNPs
ZS2024, ZS2026, ZS2029-ZS2034, ZS2036, ZS2038, ZS2040, ZS2041, ZS2045, ZS2046, FGC29856, FGC29861, FGC29862, FGC29865, FGC29867; CTS310, ZS2025
FTDNA#M6525; FGC#RUBU9; 18 [11.29] SNPs
1049yBP;
466yBP*
FGC31322, Z43306
7.75 SNPs
1933yBP
ZS1967, ZS1978, ZS1979
14.29 SNPs
2570yBP
Z42543, Z42544
19 SNPs
811yBP
ZS7681, ZS7682, ZS7684, ZS7686-ZS7688, ZS7690, ZS7695
6 SNPs
ZS6708-ZS6710, ZS6713, ZS6714, ZS6716
FTDNA#333314; 6 SNPs
M6002, ZS12336-ZS12341
FTDNA#373135; 7 SNPs
744yBP
296yBP*
ZS2007, ZS2013
5.5 SNPs
1691yBP
ZS9514
12.5 SNPs
FGC31314-FGC31317, FGC31319-FGC31321, FGC31323-FGC31326, FGC31328-FGC31332
FTDNA#228230; FGC#GKXZK; 16 [9.51] SNPs
FGC36271, ZS12564-ZS12568
FTDNA#216012; 6 SNPs
ZS1968, ZS1969, ZS1972, ZS1975-ZS1977, ZS1979, ZS1980, ZS1982, ZS1984, FGC10902, FGC14296, FGC14311, FGC31448-FGC31454, FGC31457-FGC31472
FTDNA#279650; FGC#K799W; 38 [22.58] SNPs
ZS11480-ZS11486
FTDNA#M7997; 6 SNPs
ZS12347-ZS12364
FTDNA#373139; 16 SNPs
ZS12365-ZS12385
FTDNA#396638; 22 SNPs
ZS7683, ZS7685, ZS7689, ZS7691-ZS7693
FTDNA#M9996; 6 SNPs
ZS8604-ZS8609
FTDNA#M9230; 6 SNPs
ZS2005, ZS2008, ZS2009, ZS2011, ZS2012, ZS2016, ZS2018, FGC19899
FTDNA#238741; 8 SNPs
ZS4652-ZS4654
FTDNA#214084; 3 SNPs
ZS9511-ZS9513, ZS9515-ZS9526
FTDNA#M10427; 15 SNPs
ZS12721-ZS12730
FTDNA#477311; 10 SNPs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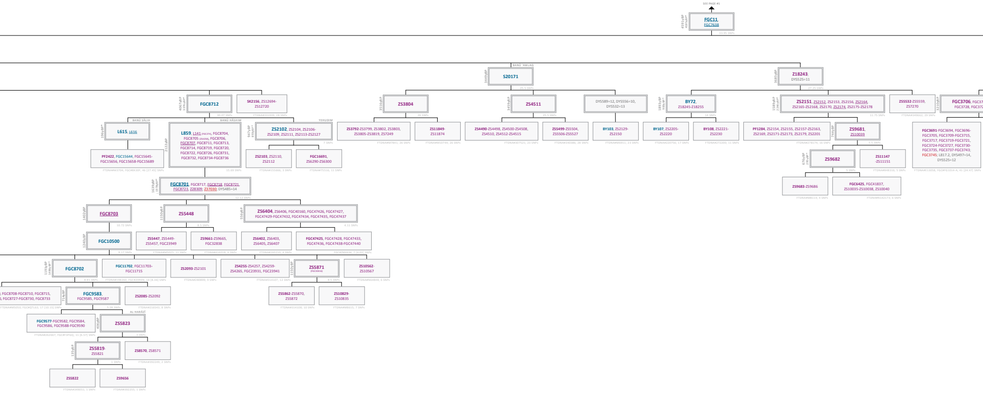
27.72 SNPs
2832ybP
BY4
20.94 SNPs
3359ybP
ZS4740
24.84 SNPs
2975ybP
ZS11641, ZS11645, ZS11649
22 SNPs
2680ybP
2727ybP*
BY5, BY6, BY7
19.82 SNPs
CTS11053, ZS11110-ZS11128
FTDNA#350172; 20 SNPs
ZS11392-ZS11412
FTDNA#M10509; 20 SNPs
1352ybP
ZS4721-ZS4727, ZS4729, ZS4731, ZS4732, ZS4734-ZS4737, ZS4741, ZS4743, Z39517
10 SNPs
FGC34347-FGC34384
FTDNA#291404; FGC#CU6V8; 38 [22.68] SNPs
PH1925, S25775, Z22566, BY3881, ZS11636-ZS11640, ZS11642-ZS11644, ZS11646-ZS11648, ZS11650, ZS11651
FTDNA#245687; 20 SNPs
PF3673, F4140, SK1293, SK1294, Z29414, Z30482, ZS11979-ZS11999
FTDNA#M10310; 27 SNPs
2096ybP
ZS2050, ZS2053, ZS2059
15.5 SNPs
2453ybP
ZS2072, ZS4083, FGC39461
18.14 SNPs
ZS4728, ZS4730, ZS4733, ZS4738, ZS4739, ZS4742, ZS4744
FTDNA#301262; 7 SNPs
ZS9912-ZS9924
FTDNA#289820; 13 SNPs
CTS1129, F1802, ZS11623-ZS11635
FTDNA#190977; 15 SNPs
BY109, ZS2048, ZS2049, ZS2051, ZS2052, ZS2054-ZS2058, ZS20560-ZS2064, ZS7255
FTDNA#205557; 16 SNPs
1119ybP
485ybP*
ZS2066, ZS2067, ZS2068, ZS2074, ZS2076, ZS4082, ZS4085, ZS6992, ZS6993, FGC39458
8.27 SNPs
2164ybP
ZS10814, ZS10819
16 SNPs
1082ybP
ZS2069
8 SNPs
1186ybP
ZS4087, ZS4088
8.77 SNPs
904ybP
FGC39459, FGC39468
6.69 SNPs
ZS11025-ZS11033
FTDNA#318073; 9 SNPs
ZS11885-ZS11888
FTDNA#M5003; 4 SNPs
FGC43091, ZS10812-ZS10813, ZS10815-ZS10818, ZS10820-ZS10828
FTDNA#M10369; 16 SNPs
2029ybP
ZS11598
15 SNPs
F339, BY110, ZS2070, ZS2071, ZS2073, ZS2075
FTDNA#119630; 6 SNPs
ZS11048-ZS11057
FTDNA#355083; 10 SNPs
816ybP
ZS4086
6.04 SNPs
774ybP
FGC24086, FGC31911, ZS11042, ZS11043, ZS11045
5.5 SNPs
997ybP
FGC39467
12.27 SNPs
ZS11034-ZS11038
FTDNA#321658; 5 SNPs
M228.2, FGC33915, ZS11599-ZS11612
FTDNA#418717; 16 SNPs
ZS11835-ZS11848
FTDNA#243256; 14 SNPs
1018ybP
898ybP*
CTS8308, FGC10492, FGC10493, Z28962
7.53 SNPs
ZS4084, ZS4089
FTDNA#246367; 3 SNPs
ZS6987-ZS6991
FTDNA#347807; 5 SNPs
ZS9108-ZS9114
FTDNA#389320; 7 SNPs
ZS9156-ZS9167
FTDNA#355096; 12 SNPs
ZS10951-ZS10955
FTDNA#395107; 5 SNPs
ZS11039-ZS11041, ZS11044, ZS11046, ZS11047
FTDNA#355082; 6 SNPs
ZS11136-ZS11140
FTDNA#389301; 5 SNPs
PH745, Z14455, FGC39448-FGC39457, FGC39460, FGC39462-FGC39466
FTDNA#284664; FGC#Z8QQQ; 18 [10.74] SNPs
ZS10427-ZS10430
FTDNA#389321; 4 SNPs
PF386, ZS2077-ZS2082
FTDNA#M6288; 7 SNPs
1160ybP
FGC10502
8.58 SNPs
ZS5824, ZS5826, ZS5827, ZS5829-ZS5831
FTDNA#222412; 6 SNPs
FGC7777, FGC8697-FGC8700, FGC8716, FGC8724, FGC872
FGC10488
ZS4665-ZS4672, FGC28333, FGC28334
FTDNA#190499; 10 SNPs
FGC10489-FGC10491, FGC10493-FGC10499, FGC10501
FTDNA#261018; FGC#YNUMH; 12 [7.16] SNPs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4591ybp 4185ybp*
FGC11, FGC7638
33.95 SNPs
BANŪ 'AWLAQ
3449ybp
S20171
25.5 SNPs
3685ybp
Z18243; DYS525=11
27.25 SNPs
4067ybp 3376ybp*
FGC8712
30.07 SNPs
SK2156, ZS12694-ZS12720
FTDNA#331939; 28 SNPs
3516ybp
ZS3804
26 SNPs
3459ybp
ZS4511
25.5 SNPs
DYS589=12, DYS556=10, DYS532=13
1893ybp 900ybp*
BY72, Z18245-Z18255
14 SNPs
1589ybp 2286ybp*
ZS2151, ZS2152, ZS2153, ZS2156, ZS2164, ZS2165-ZS2168, ZS2170, ZS2174, ZS2175-ZS2178
11.75 SNPs
ZS5532-ZS5559, ZS7270
FTDNA#349662; 29 SNPs
3210ybp
FGC3706, FGC37
FGC3728, FGC372
BANŪ SĀLIH
196ybp*
L615, L616
BANŪ HĀSHIM
2122ybp
L859, L141 (FGC274), FGC8704, FGC8705 (ZS4258), FGC8706, FGC8707, FGC8711, FGC8713, FGC8714, FGC8719, FGC8720, FGC8722, FGC8726, FGC8731, FGC8732, FGC8734-FGC8736
15.69 SNPs
YEHUDIM
947ybp 893ybp*
ZS2102, ZS2104, ZS2106-ZS2109, ZS2111, ZS2113-ZS2127
7 SNPs
ZS3792-ZS3799, ZS3802, ZS3803, ZS3805-ZS3819, ZS7249
FTDNA#M7841; 26 SNPs
ZS11849-ZS11874
FTDNA#M10744; 26 SNPs
ZS4490-ZS4498, ZS4500-ZS4508, ZS4510, ZS4512-ZS4515
FTDNA#307521; 23 SNPs
ZS5499-ZS5504, ZS5506-ZS5527
FTDNA#340386; 28 SNPs
BY103, ZS2129-ZS2150
FTDNA#M6911; 23 SNPs
BY107, ZS2205-ZS2220
FTDNA#220756; 17 SNPs
BY108, ZS2221-ZS2230
FTDNA#272200; 11 SNPs
PF1284, ZS2154, ZS2155, ZS2157-ZS2163, ZS2169, ZS2171-ZS2173, ZS2179, ZS2201
FTDNA#278174; 16 SNPs
744ybp
ZS9681, ZS10039
5.5 SNPs
FGC3691-FGC3694, FGC3696-FGC3705, FGC3709-FGC3715, FGC3717, FGC3719-FGC3721, FGC3724-FGC3727, FGC3730-FGC3735, FGC3737-FGC3743; FGC3745; L817.2, DYS497=14, DYS525=12
FTDNA#E13058; FGC#FG1014-A; 41 [24.47] SNPs
PF2422, FGC15644, FGC15645-FGC15656, FGC15658-FGC15689
FTDNA#M3704; FGC#8X30F; 46 [27.45] SNPs
ZS2103, ZS2110, ZS2112
FTDNA#155666; 3 SNPs
FGC16691, ZS6290-ZS6300
FTDNA#75516; 11 SNPs
676ybp 295ybp*
ZS9682
5 SNPs
ZS11147-ZS11151
FTDNA#848316; 5 SNPs
ZS9683-ZS9686
FTDNA#M8114; 4 SNPs
FGC6425, FGC41837, ZS10035-ZS10038, ZS10040
FTDNA#N142173; 6 SNPs
1639ybp 1978ybp*
FGC8701, FGC8717, FGC8718, FGC8721, FGC8723, Z28309; Z37030; DYS485=14
12.12 SNPs
1402ybp
FGC8703
10.72 SNPs
1150ybp
ZS5448
8.5 SNPs
556ybp
ZS6404, ZS6406, FGC40160, FGC47426, FGC47427, FGC47429-FGC47432, FGC47434, FGC47435, FGC47437
4.11 SNPs
1240ybp
FGC10500
9.17 SNPs
ZS5447, ZS5449-ZS5457, FGC23949
FTDNA#M5025; 11 SNPs
ZS9661-ZS9665, FGC32838
FTDNA#416018; 6 SNPs
ZS6402, ZS6403, ZS6405, ZS6407
FTDNA#160210; 4 SNPs
FGC47425, FGC47428, FGC47433, FGC47436, FGC47438-FGC47440
FGC#ZMKKM; 7 [4.03] SNPs
1191ybp 1486ybp*
FGC8702
8.81 SNPs
FGC11702, FGC11703-FGC11715
FTDNA#198260; FGC#20RKN; 14 [8.36] SNPs
ZS2093-ZS2101
FTDNA#280899; 9 SNPs
ZS4255-ZS4257, ZS4259-ZS4265, FGC23931, FGC23941
FTDNA#314107; 12 SNPs
1150ybp
ZS5871 (FGC30816)
8.5 SNPs
ZS10562-ZS10567
FTDNA#N64848; 6 SNPs
, FGC8708-FGC8710, FGC8715,
, FGC8727-FGC8730, FGC8733
FTDNA#M5050; FGC#QTL63; 17 [10.15] SNPs
714ybp
FGC9583, FGC9585, FGC9587
5.28 SNPs
ZS2085-ZS2092
FTDNA#216543; 8 SNPs
ZS5862-ZS5870, ZS5872
FTDNA#314108; 10 SNPs
ZS10829-ZS10835
FTDNA#M8615; 7 SNPs
AL-HARĀZĪ
FGC9577-FGC9582, FGC9584, FGC9586, FGC9588-FGC9590
FTDNA#262667; FGC#F3PGQ; 11 [6.57] SNPs
406ybp
ZS5823
3 SNPs
135ybp
ZS5819-ZS5821
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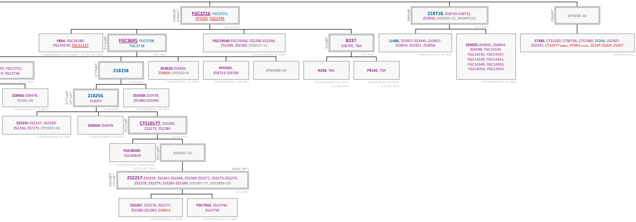
ZS5822
FTDNA#349051; 1 SNPs
ZS9656
FTDNA#392255; 1 SNPs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4185yBP*
FGC3716, FGC3723; PF1195, FGC3744
36.44 SNPs
3990yBP
Z18718, Z18719-Z18721, ZS3946; DYS505=11, DYS447≤21
29.5 SNPs
700yBP*
DYS458=16
F894, FGC34188-FGC34239; FGC31137
FTDNA#M9050; FGC#7SKR7; 53 [31.63] SNPs
4315yBP
FGC3695, FGC3708, FGC3718
31.9 SNPs
FGC19540-FGC19566, ZS2290-ZS2296, ZS2298, ZS2302; DYS617=11
FTDNA#105085; 36 SNPs
524yBP
B237, Z28795, TBA
3.87 SNPs
L1405, ZS3927-ZS3945, ZS3951-ZS3954, ZS3957, ZS3958
FTDNA#253271; 27 SNPs
ZS4025-ZS4042, ZS4044-ZS4048, FGC14334, FGC14335, FGC14337, FGC14339, FGC14341, FGC14349, FGC14350, FGC14354, FGC14355
FTDNA#143879; 32 SNPs
CTS85, CTS1020, CTS6756, CTS7680, ZS206, ZS2307-ZS2355; CTS3477 (ZS201), PF483 (ZS198), ZS199-ZS204, ZS207
1kGP#NA12282
07, FGC3722,
29, FGC3736
23.74 SNPs
3779yBP
Z18258
27.94 SNPs
ZS3820-ZS3850; ZS9809; DYS532=9
FTDNA#198773; 31 SNPs
PH1501, ZS9733-ZS9769
FTDNA#M10357; 38 SNPs
DYS459b=10
B238, TBA
MK2015#16887/Israel41; 2 [1.94] SNPs
PR142, TBA
MK2015#16973/ISR49; 6 [5.81] SNPs
ZS8456-ZS8478; YCAIIa=20
FTDNA#404110; 23 SNPs
3771yBP
2871yBP*
Z18256, Z18257
27.89 SNPs
ZS5458-ZS5478, ZS5480-ZS5484
FTDNA#M9341; 26 SNPs
ZS2231-ZS2237, ZS2239-ZS2256, ZS7271; DYS593=16
FTDNA#M9290; 27 SNPs
ZS4959-ZS4978
FTDNA#238625; 20 SNPs
4417yBP
CTS10177, ZS2260, ZS2272, ZS2284
30.62 SNPs
FGC40585-FGC40639
FTDNA#M8684; FGC#IN8CM; 56 [32.82] SNPs
2871yBP*
DYS487=15
BANŪ YĀFʿI
1420yBP
1072yBP*
ZS2257-ZS2259, ZS2261-ZS2266, ZS2269-ZS2271, ZS2273-ZS2275, ZS2278, ZS2279, ZS2285-ZS2289; DYS587=17, DYS385b=20
10.5 SNPs
ZS2267, ZS2276, ZS2277, ZS2280-ZS2283; ZS9813
FTDNA#222132; 7 SNPs
FGC7653, ZS12746-ZS12758
FTDNA#M11113; 14 SNPs

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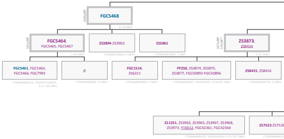
640ybp
FGC5468
4.73 SNPs
161ybp
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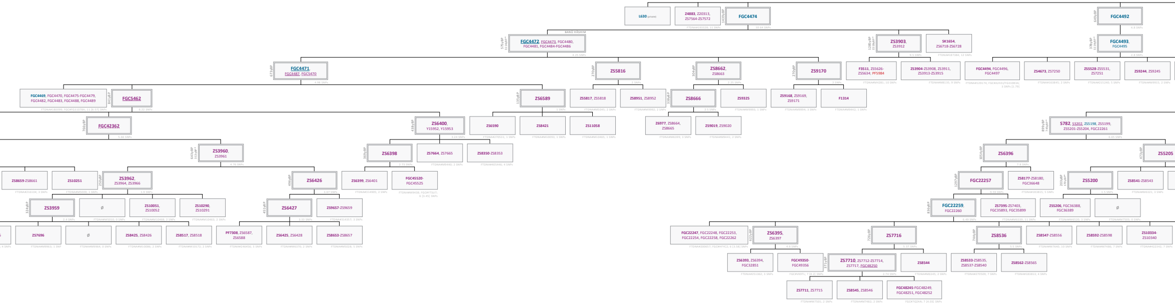
1.49 SNPs
ZS3894-ZS3902
FTDNA#70260; 9 SNPs
ZS5861
FTDNA#M5004; 1 SNP
327ybp
544ybp*
ZS3873, ZS8414
2.57 SNPs
FGC5461, FGC5463, FGC5466, FGC7993
FTDNA#M5014; FGC#FG31082A; 4 [1.19] SNPs
ø
FTDNA#M5082; 0 SNPs
FGC1514, ZS6311
FTDNA#M6084; 2 SNPs
PF250, ZS3874, ZS3875, ZS3877, FGC50893-FGC50896
FTDNA#M4021; FGC#4SEYF; 8 [4.83] SNPs
ZS8415, ZS8416
FTDNA#369734; 2 SNPs
Z11251, ZS3963, ZS3965, ZS3967, ZS3968, ZS3973, Y15612, FGC42361, FGC42364
FTDNA#M9235; FGC#UDGRB; 9 [5.97] SNPs
ZS7523-ZS752
FTDNA#M865


L630 (private)
Z4883, Z20313, ZS7564-ZS7572
FTDNA#193328; 11 SNPs
1439yBP
FGC4474
10.64 SNPs
649yBP
FGC4492
4.8 SNPs
BANŪ HĀSHIM
575yBP
1114yBP*
FGC4472, FGC4473, FGC4480, FGC4481, FGC4484-FGC4486
4.25 SNPs
1285yBP
1518yBP*
ZS3903, ZS3912
9.5 SNPs
SK1654, ZS6718-ZS6728
FTDNA#187384; 12 SNPs
378yBP
1114yBP*
FGC4493, FGC4495
2.8 SNPs
673yBP
FGC4471, FGC4487, FGC5470
4.98 SNPs
270yBP
ZS5816
2 SNPs
304yBP
ZS8662, ZS8663
2.25 SNPs
270yBP
ZS9170
2 SNPs
F3511, ZS5626-ZS5634; PF5984
FTDNA#M4281; 10 SNPs
ZS3904-ZS3908, ZS3911, ZS3913-ZS3915
FTDNA#M8135; 9 SNPs
FGC4494, FGC4496, FGC4497
FTDNA#129174; FGC#JUHZJ/FG31083A; 3 SNPs [1.79]
ZS4673, ZS7250
FTDNA#163845; 2 SNPs
ZS5528-ZS5531, ZS7251
FTDNA#215240; 5 SNPs
ZS9244, ZS9245
FTDNA#M9915; 2 SNPs
FGC4469, FGC4470, FGC4475-FGC4479, FGC4482, FGC4483, FGC4488, FGC4489
FTDNA#180099; FGC#FG31078A; 11 [6.57] SNPs
841yBP
FGC5462
6.22 SNPs
135yBP
ZS6589
1 SNPs
ZS5817, ZS5818
FTDNA#M5045; 2 SNPs
ZS8951, ZS8952
FTDNA#M9992; 2 SNPs
338yBP
ZS8666
2.5 SNPs
ZS9325
FTDNA#M9993; 1 SNPs
ZS9168, ZS9169, ZS9171
FTDNA#M9994; 3 SNPs
F1314
FTDNA#M9442; 1 SNPs
766yBP
FGC42362
5.66 SNPs
438yBP
ZS6400, Y15952, Y15953
3.24 SNPs
ZS6590
FTDNA#270531; 1 SNPs
ZS8421
FTDNA#M10093; 1 SNPs
ZS11058
FTDNA#M10465; 1 SNPs
Z6977, ZS8664, ZS8665
FTDNA#M6399; 3 SNPs
ZS9019, ZS9020
FTDNA#M9441; 2 SNPs
899yBP
745yBP*
S782, S3202, ZS5198, ZS5199, ZS5201-ZS5204, FGC22261
6.65 SNPs
643yBP
313yBP*
ZS3960, ZS3961
4.76 SNPs
369yBP
ZS6398
2.73 SNPs
ZS7664, ZS7665
FTDNA#M9440; 2 SNPs
ZS8350-ZS8353
FTDNA#405446; 4 SNPs
1054yBP
ZS6396
7.8 SNPs
473yBP
ZS5205
ZS8659-ZS8661
FTDNA#216104; 3 SNPs
ZS10251
FTDNA#M5009; 1 SNPs
250yBP
ZS3962, ZS3964, ZS3966
1.9 SNPs
496yBP
ZS6426
3.67 SNPs
ZS6399, ZS6401
FTDNA#314905; 2 SNPs
FGC45520-FGC45525
FTDNA#M9438; FGC#YTSU7; 6 [3.45] SNPs
1297yBP
FGC22257
9.59 SNPs
ZS8177-ZS8180, FGC36648
FTDNA#183815; 5 SNPs
203yBP
170yBP*
ZS5200
1.5 SNPs
ZS8541-ZS8543
FTDNA#M6321; 3 SNPs
324yBP
ZS3959
2.4 SNPs
ø
FTDNA#M5010; 0 SNPs
ZS10051, ZS10052
FTDNA#M10468; 2 SNPs
ZS10290, ZS10291
FTDNA#M10463; 2 SNPs
451yBP
ZS6427
3.33 SNPs
ZS9657-ZS9659
FTDNA#314357; 3 SNPs
836yBP
FGC22259, FGC22260
6.49 SNPs
ZS7395-ZS7403, FGC35893, FGC35899
FTDNA#M6339; 11 SNPs
ZS5206, FGC36388, FGC36389
FTDNA#M6520; 3 SNPs
ø
FTDNA#M7503; 0 SNPs
4 SNPs
ZS7696
FTDNA#M9963; 1 SNP
ø
FTDNA#M9964; 0 SNPs
ZS8425, ZS8426
FTDNA#M10086; 2 SNPs
ZS8517, ZS8518
FTDNA#M10172; 2 SNPs
PF7308, ZS6587, ZS6588
FTDNA#246456; 3 SNPs
ZS6425, ZS6428
FTDNA#M6370; 2 SNPs
ZS8653-ZS8657
FTDNA#M5028; 5 SNPs
FGC22247, FGC22248, FGC22253, FGC22254, FGC22258, FGC22262
FTDNA#200657; FGC#HFYC2; 6 [3.58] SNPs
622yBP
ZS6395, ZS6397
4.6 SNPs
726yBP
ZS7716
5.37 SNPs
744yBP
ZS8536
5.5 SNPs
ZS8547-ZS8556
FTDNA#M7640; 10 SNPs
ZS8592-ZS8598
FTDNA#M7486; 7 SNPs
ZS10334-ZS10340
FTDNA#422342; 7 SNPs
ZS6393, ZS6394, FGC32851
FTDNA#251362; 3 SNPs
FGC49350-FGC49356
FGC#VK9TL; 7 [4.2] SNPs
371yBP
ZS7710, ZS7712-ZS7714, ZS7717, FGC48250
2.74 SNPs
ZS8544
FTDNA#M6345; 2 SNPs
ZS8533-ZS8535, ZS8537-ZS8540
FTDNA#270509; 7 SNPs
ZS8562-ZS8565
FTDNA#183813; 4 SNPs
ZS7711, ZS7715
FTDNA#M7501; 2 SNPs
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FTDNA#M7482; 2 SNPs
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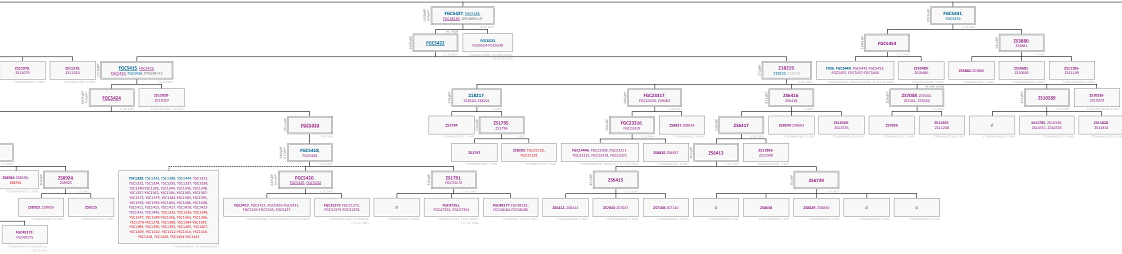
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10.63 SNPs
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11.16 SNPs
FGC6523, FGC6524-FGC6538
FTDNA#170200; FGC#ME1001A; 16 [9.55] SNPs
1093ybP
FGC5441, FGC5456
8.09 SNPs
1240ybP
FGC5454
9.17 SNPs
541ybP
ZS3880, ZS3881
4 SNPs
ZS11076, ZS11079
FTDNA#M8274; 4 SNPs
ZS11319, ZS11320
FTDNA#M7183; 2 SNPs
1518ybP
FGC5415, FGC5416, FGC5419, FGC5426; DYS638=12
11.23 SNPs
772ybP
Z18219, Z18222; Z18218
5.54 SNPs
F936, FGC5440, FGC5442-FGC5453, FGC5455, FGC5457-FGC5460
FTDNA#164622; FGC#FG31079A; 18 [11.34] SNPs
ZS10480-ZS10486
FTDNA#422048; 7 SNPs
ZS3882-ZS3886
FTDNA#M7416; 5 SNPs
ZS10681-ZS10683
FTDNA#419296; 3 SNPs
ZS11106-ZS11109
FTDNA#418758; 4 SNPs
1604ybP 745ybP*
FGC5424
11.86 SNPs
ZS12020-ZS12029
FTDNA#328607; 10 SNPs
270ybP
Z18217, Z18220, Z18221
2 SNPs
689ybP
FGC23317, FGC23320, Z39483
5.09 SNPs
811ybP
ZS6416, ZS6418
6 SNPs
AL-MA'SHŪQ
203ybP
ZS7038, ZS7040, ZS7041, ZS7042
1.5 SNPs
361ybP
ZS10289
2.67 SNPs
ZS10326-ZS10329
FTDNA#M10429; 4 SNPs
1011ybP
FGC5423
7.48 SNPs
ZS1794
FTDNA#254707; 1 SNP
135ybP
ZS1795, ZS1796
1 SNP
566ybP
FGC23316, FGC23319
4.18 SNPs
ZS8831-ZS8834
FTDNA#M6343; 4 SNPs
539ybP
ZS6417
3.98 SNPs
ZS8599-ZS8603
FTDNA#M7487; 5 SNP
ZS12569-ZS12576
FTDNA#M10640; 8 SNP
ZS7039
FTDNA#M9545; 1 SNPs
ZS11207, ZS11208
FTDNA#412130; 2 SNP
ø
FTDNA#415489; 0 SNPs
M11785, ZS10330, ZS10331, ZS10333
FTDNA#M6917; 4 SNPs
ZS11828-ZS11831
FTDNA#M10827; 4 SNPs
740ybP 673ybP*
FGC5418, FGC5436
5.48 SNPs
ZS1797
FTDNA#212874; 1 SNP
ZS8203; FGC31126, FGC31128
FTDNA#307733; 1 SNP
FGC14446, FGC23309, FGC23311-FGC23315, FGC23318, FGC23321
FTDNA#M6092; FGC#LHEEB; 9 [5.37] SNPs
ZS8835-ZS8837
FTDNA#M6344; 3 SNPs
401ybP
ZS6413
2.97 SNPs
ZS11896-ZS11900
FTDNA#M10706; 4 SNP
3.5 SNPs
ZS8586-ZS8590; ZS8591
FTDNA#M6655; 5 SNPs
203ybP
ZS8924, ZS8925
1.5 SNPs
YSC1339, YSC1343, YSC1388, YSC1444; YSC1331, YSC1332, YSC1334, YSC1335, YSC1337, YSC1338, YSC1340-YSC1342, YSC1344, YSC1345, YSC1348, YSC1357-YSC1362, YSC1364, YSC1365, YSC1367-YSC1375, YSC1379, YSC1381-YSC1383, YSC1391, YSC1392, YSC1394-YSC1404, YSC1406, YSC1408, YSC1411, YSC1415, YSC1417, YSC1419, YSC1421-YSC1433, YSC1445; YSC1333, YSC1336, YSC1346, YSC1347, YSC1349-YSC1356, YSC1363, YSC1366, YSC1376-YSC1378, YSC1380, YSC1384-YSC1387, YSC1389, YSC1390, YSC1393, YSC1405, YSC1407, YSC1409, YSC1410, YSC1412-YSC1414, YSC1416, YSC1418, YSC1420, YSC1434-YSC1443
FTDNA#149060; WTY#GRC021847
643ybP 541ybP*
FGC5420 , FGC5425, FGC5432
4.75 SNPs
326ybP
ZS1791, FGC33172
2.41 SNPs
451ybP
ZS6415
3.33 SNPs
81ybP
ZS6729
0.6 SNPs
ZS8923, ZS8926
FTDNA#352957; 2 SNPs
ZS9115
FTDNA#270514; 1 SNPs
FGC5417, FGC5421, FGC5429-FGC5431, FGC5433-FGC5435, FGC5437
FTDNA#166288; FGC#FG31076A; 9 [5.35] SNPs
FGC31371-FGC31373, FGC31375-FGC31378
FTDNA#161466; FGC#JBDF8; 7 [4.16] SNPs
ø
FTDNA#193537; 0 SNPs
FGC47351, FGC47352, FGC47354
FTDNA#413733; FGC# T8JWP; 3 [1.73] SNPs
FGC48177-FGC48182, FGC48184-FGC48186
FGC#6CJFZ; 9 [5.37] SNPs
ZS6412, ZS6414
FTDNA#M9448; 2 SNPs
ZS7043-ZS7047
FTDNA#M9449; 5 SNPs
ZS7108-ZS7110
FTDNA#M8842; 3 SNPs
ø
FTDNA#M8840; 0 SNP
ZS8658
FTDNA#M9859; 1 SNP
ZS8829, ZS8830
FTDNA#M8733; 2 SNP
ø
FTDNA#M9434; 0 SNP
ø
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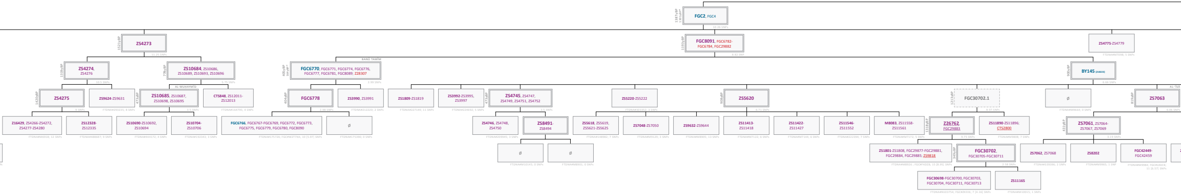
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11.25 SNPs
1193ybP
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8.82 SNP
ZS4775-ZS4779
FTDNA#M7098; 5 SNPs
1319ybP
ZS4274, ZS4276
10.5 SNPs
778ybP
ZS10684, ZS10686, ZS10689, ZS10693, ZS10696
5.75 SNPs
BANŪ TAMĪM
405ybP
164ybP*
FGC6770, FGC6771, FGC6774, FGC6776, FGC6777, FGC6781, FGC8089; Z28307
2.99 SNPs
900ybP
BY145 (Z18223)
6.66 SNPs
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ZS4275
9 SNPs
ZS9624-ZS9631
FTDNA#293235; 8 SNPs
AL-MUHAYMĪD
473ybP
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3.5 SNPs
CTS848, ZS12011-ZS12013
FTDNA#164795; 4 SNPs
404ybP
FGC6778
2.98 SNPs
ZS3990, ZS3991
FTDNA#212220; 2 SNPs
ZS1809-ZS1819
FTDNA#227149; 11 SNPs
ZS3992-ZS3995, ZS3997
FTDNA#224692; 5 SNPs
473ybP
ZS4745, ZS4747, ZS4749, ZS4751, ZS4752
3.5 SNPs
ZS5220-ZS5222
FTDNA#303352; 3 SNPs
908ybP
ZS5620
6.71 SNPs
1213ybP
FGC30702.1
8.97 SNPs
ø
FTDNA#M9664; 0 SNPs
AL-ʿĪSĀ
819ybP
ZS7063
6.06 SNPs
Z16429, ZS4266-ZS4272, ZS4277-ZS4280
FTDNA#M6918; 12 SNPs
ZS12328-ZS12335
FTDNA#488687; 9 SNPs
ZS10690-ZS10692, ZS10694
FTDNA#444172; 4 SNPs
ZS10704-ZS10706
FTDNA#192343; 3 SNPs
FGC6766, FGC6767-FGC6769, FGC6772, FGC6773, FGC6775, FGC6779, FGC6780, FGC8090
FTDNA#175726; FGC#W2T7XA; 10 [5.97] SNPs
ø
FTDNA#175390; 0 SNPs
ZS4746, ZS4748, ZS4750
FTDNA#209945; 3 SNPs
ZS8491-ZS8494
ZS5618, ZS5619, ZS5621-ZS5625
FTDNA#148982; 7 SNPs
ZS7048-ZS7050
FTDNA#M9129; 3 SNPs
ZS9632-ZS9644
FTDNA#M8905; 13 SNPs
ZS11413-ZS11418
FTDNA#M7122; 6 SNPs
ZS11422-ZS11427
FTDNA#M7144; 6 SNPs
ZS11546-ZS11552
FTDNA#222394; 7 SNPs
M8083, ZS11558-ZS11561
FTDNA#M7172; 5 SNPs
1318ybP
Z26762, FGC29883
9.75 SNPs
ZS11890-ZS11896; CTS2800
FTDNA#M9808; 7 SNPs
431ybP
ZS7061, ZS7064-ZS7067, ZS7069
3.19 SNPs
ø
FTDNA#M10145; 0 SNPs
ø
FTDNA#M8901; 0 SNPs
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FTDNA#M8926 ; FGC#FKDZ8; 15 [8.95] SNPs
349ybP
FGC30702, FGC30705-FGC30711
2.58 SNPs
ZS7062, ZS7068
FTDNA#339396; 2 SNPs
ZS8202
FTDNA#M9965; 1 SNP
FGC42449-FGC42459
FTDNA#M9984; FGC#U8JC8; 11 [6.57] SNPs
FGC30698-FGC30700, FGC30703, FGC30704, FGC30711, FGC30713
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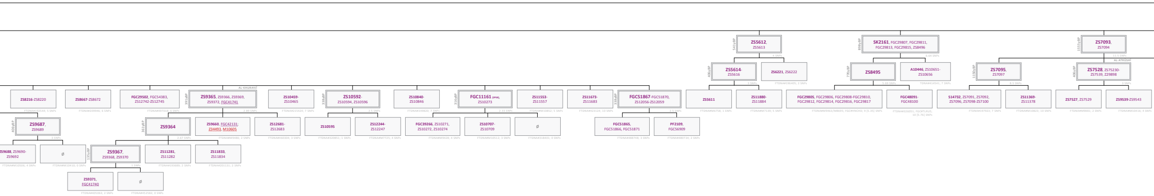
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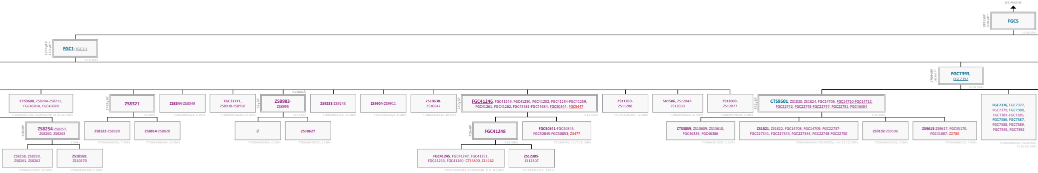
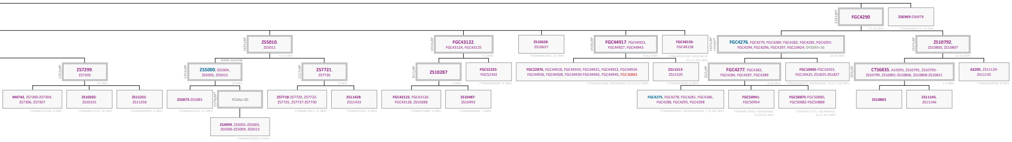
1555ybp ZS7093, ZS7094 11.5 SNPs
406ybp ZS5614-ZS5616 3 SNPs
ZS6221, ZS6222 FTDNA#196405; 2 SNPs
770ybp ZS8495 5.69 SNPs
A10446, ZS10651-ZS10656 FTDNA#414541; 7 SNPs
1190ybp ZS7095, ZS7097 8.5 SNPs
AL-ATRŪSHĪ
406ybp ZS7528, ZS75230-ZS7539, Z29898 3 SNPs
ZS8216-ZS8220 FTDNA#192544; 5 SNPs
ZS8667-ZS8672 FTDNA#209946; 6 SNPs
FGC29502, FGC54383, ZS12742-ZS12745 FTDNA#497018; 6 SNPs
AL-KHURAYJĪ
391ybp ZS9365, ZS9366, ZS9369, ZS9372, FGC41741 2.89 SNPs
ZS10459-ZS10465 FTDNA#215424; 7 SNPs
338ybp ZS10592-ZS10594, ZS10596 2.5 SNPs
ZS10840-ZS10846 FTDNA#349820; 7 SNPs
316ybp FGC11161 (ZPS8), ZS10273 2.33 SNPs
ZS11553-ZS11557 FTDNA#M10852; 5 SNPs
ZS11673-ZS11683 FTDNA#423124; 10 SNPs
338ybp FGC51867-FGC51870, ZS12056-ZS12059 2.5 SNPs
ZS5611 FTDNA#M6758; 1 SNPs
ZS11880-ZS11884 FTDNA#M7139; 5 SNPs
FGC29805, FGC29806, FGC29808-FGC29810, FGC29812, FGC29814, FGC29816, FGC29817 FTDNA#M9463/M8695; FGC#HNCHD; 9 [5.35] SNPs
FGC48091-FGC48100 FTDNA#326051; FGC#TLRUS; 10 [5.76] SNPs
S14732, ZS7091, ZS7092, ZS7096, ZS7098-ZS7100 FTDNA#197923; 7 SNPs
ZS11369-ZS11378 FTDNA#M10823; 10 SNPs
ZS7527, ZS7529 FTDNA#M9881; 2 SNPs
ZS9539-ZS9543 FTDNA#M10416; 4 SNPs
406ybp ZS9687, ZS9689 3 SNPs
361ybp ZS9364 2.67 SNPs
ZS9660, FGC42131; Z34493, M10605 FTDNA#M9486; 2 SNPs
ZS12681-ZS12683 FTDNA#460304; 3 SNPs
ZS10595 FTDNA#320851; 1 SNPs
ZS12244-ZS12247 FTDNA#M7725; 4 SNPs
FGC39266, ZS10271, ZS10272, ZS10274 FTDNA#M9428; 4 SNPs
ZS10707-ZS10709 FTDNA#M10512; 3 SNPs
ø FTDNA#318401; 0 SNPs
FGC51865, FGC51866, FGC51871 FTDNA#488748; 3 SNPs
PF2109, FGC56909 FTDNA#480734; 2 SNPs
ZS9688, ZS9690-ZS9692 FTDNA#M10506; 4 SNPs
ø FTDNA#M10410; 0 SNPs
135ybp ZS9367, ZS9368, ZS9370 1 SNPs
ZS11281, ZS11282 FTDNA#193689; 2 SNPs
ZS11833, ZS11834 FTDNA#201131; 2 SNPs
ZS9371, FGC41740 FTDNA#405063; 2 SNPs
ø FTDNA#452582; 0 SNPs


SEE PAGE #2
FGC5
1891yBP
1950yBP*
13.98 SNP
FGC1; FGC3.1
1744yBP
1713yBP*
12.9 SNPs
FGC7393, FGC7397
1769yBP
1438yBP*
13.08 SNPs
CTS9608, ZS8204-ZS8211, FGC45014, FGC45020
FTDNA#357720; FGC#PL67W; 11 [6.33] SNPs
ZS8254-ZS8257, ZS8260, ZS8263
406yBP
3 SNPs
ZS8258, ZS8259, ZS8261, ZS8262
FTDNA#172623; 10 SNPs
ZS10169, ZS10170
FTDNA#391446; 2 SNPs
ZS8321
1488yBP
11 SNPs
ZS8322-ZS8328
FTDNA#366506; 7 SNPs
ZS8814-ZS8828
FTDNA#304604; 15 SNPs
ZS8344-ZS8349
FTDNA#M9623; 6 SNPs
FGC33711, ZS8938-ZS8950
FTDNA#M10286; 14 SNPs
AL-MULĀ
ZS8983-ZS8995
68yBP
.0.5 SNPs
ø
FTDNA#292864; 0 SNPs
ZS10627
FTDNA#259732; 1 SNPs
ZS9233-ZS9243
FTDNA#M6101; 11 SNPs
ZS9904-ZS9911
FTDNA#212226; 8 SNPs
ZS10638-ZS10647
FTDNA#228632; 10 SNPs
FGC41246, FGC41249, FGC41250, FGC41252, FGC41254-FGC41259, FGC41261, FGC41262, FGC45681-FGC45684, FGC50844; FGC5447
760yBP
5.62 SNPs
FGC41248
405yBP
2.99 SNPs
FGC41245, FGC41247, FGC41251, FGC41253, FGC41260; CTS5800, Z14162
FTDNA#326267; FGC#ZTD8Q; 6 [3.45] SNPs
ZS12305-ZS12307
FTDNA#315737; 3 SNPs
FGC50841-FGC50843, FGC50845-FGC50853; Z3477
FGC#AT2VY; 12 [7.24] SNPs
ZS11269-ZS11280
FTDNA#189269; 12 SNPs
SK1506, ZS12042-ZS12050
FTDNA#M9822; 10 SNPs
ZS12069-ZS12077
FTDNA#479876; 9 SNPs
CTS9501, ZS1820, ZS1824, FGC14706, FGC14710-FGC14712, FGC22742, FGC22745-FGC22747, FGC22751, FGC46384
856yBP
6.33 SNPs
CTS3859, ZS10609, ZS10610, FGC46385, FGC46386
FTDNA#M10202; 5 SNPs
ZS1821, ZS1822, FGC14708, FGC14709, FGC22737-FGC227341, FGC227343, FGC227344, FGC22748-FGC22750
FTDNA#M7040; FGC#EBTQU; 14 [13.13] SNPs
ZS9192-ZS9196
FTDNA#M10365; 5 SNPs
ZS9613-ZS9617, FGC35170, FGC41887; Z2780
FTDNA#M8123; 7 SNPs
FGC7376, FGC7377, FGC7379, FGC7380, FGC7381-FGC7385, FGC7386, FGC7387, FGC7388, FGC7389, FGC7391, FGC7392
FTDNA#M6640; FGC#YZ2A; 15 [8.95] SNPs


2361ybP
FGC4290
17.46 SNPs
ZS6969-ZS6978
FTDNA#182757; 10 SNPs
1691ybP
ZS5010, ZS5011
12.5 SNPs
1014ybP
FGC43122, FGC43124, FGC43125
7.5 SNPs
ZS10628-ZS10637
FTDNA#443941; 10 SNPs
1436ybP
FGC44917, FGC44923, FGC44927, FGC44943
10.62 SNPs
FGC48136-FGC48158
FTDNA#322238; FGC#TN2L8; 23 [13.24] SNPs
1425ybP 1036ybP*
FGC4276, FGC4279, FGC4280, FGC4282, FGC4285, FGC4291-FGC4294, FGC4296, FGC4297, FGC10424; DYS593=16
10.54 SNPs
1927ybP
ZS10792, ZS10800, ZS10807
14.25 SNPs
1352ybP
ZS7299, ZS7305
10 SNPs
BANŪ SULAYM
1352ybP
ZS5000, ZS5004, ZS5005, ZS5012
10 SNPs
1217ybP
ZS7721, ZS7726
9 SNPs
811ybP
ZS10287
6 SNPs
FGC52335-FGC52342
FTDNA#450587; 8 SNPs
FGC22876, FGC44918, FGC44919, FGC44921, FGC44922, FGC44924-FGC44926, FGC44928, FGC44930-FGC44942, FGC44945; FGC30883
FTDNA#243268; FGC#4KJMJ; 24 [13.81] SNPs
ZS11513-ZS11525
FTDNA#415536; 8 SNPs
922ybP
FGC4277, FGC4283, FGC4284, FGC4287, FGC4289
6.82 SNPs
FGC10405-FGC10423, FGC10425, ZS1825-ZS1827
FTDNA#236475; FGC#1IGWD; 19 [11.34] SNPs
203ybP
CTS6835, A10595, ZS10791, ZS10793-ZS10799, ZS10801-ZS10806, ZS10808-ZS10811
1.5 SNPs
A3295, ZS11129-ZS11135
FTDNA#294930; 8 SNPs
M4743, ZS7300-ZS7304, ZS7306, ZS7307
FTDNA#115528; 8 SNPs
ZS10302-ZS10315
FTDNA#413735; 14 SNPs
ZS11251-ZS11258
FTDNA#449999; 8 SNPs
ZS5873-ZS5883
FTDNA#357617; 11 SNPs
1570ybP*
YCAIIa=20
ZS4999, ZS5001-ZS5003, ZS5006-ZS5009, ZS5013
FTDNA#152929; 9 SNPs
ZS7718-ZS7720, ZS7722-ZS7725, ZS7727-ZS7730
FTDNA#T1913; 13 SNPs
ZS11428-ZS11433
FTDNA#T1933; 6 SNPs
FGC43123, FGC43126-FGC43128, ZS10288
FTDNA#T1880; 5 SNPs
ZS10487-ZS10493
FTDNA#M6892; 7 SNPs
FGC4275, FGC4278, FGC4281, FGC4286, FGC4288, FGC4295, FGC4298
FTDNA#148265; FGC#FG31070A; 7 [4.16] SNPs
FGC50941-FGC50954
FTDNA#172050; FGC#XXNDS; 14 [8.45] SNPs
FGC50875-FGC50880, FGC50882-FGC50888
FTDNA#177321; FGC#9VASU; 13 [7.84] SNPs
ZS10803
ZS11145, ZS11146

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