



- EURASIA (not shown)
- CEU (1K) [102]
- FIN (1K) [100]
- GBR (1K) [97]
- IBS (1K) [100]
- TSI (1K) [99]
- CDX (1K) [92]
- CHB (1K) [100]
- CHS (1K) [93]
- GIH (1K) [98]
- JPT (1K) [100]
- KHV (1K) [99]
- PEL (1K) [16]
- KEY TO POPULATION ORIGINS
- 1K = ONE THOUSAND GENOME PROJECT
- MG = MALARIAGEN POPULATIONS
- PA = PAGANI ET AL 2012
- AJHG
- PE = PETERSON ET AL 2014
- PLOS GENETICS
- SC = SCHLEBUSCH ET AL 2014
- SCIENCE
- PS = POPULATIONS FROM PE AND SC

- ANCESTRY REGIONS**
- Western Africa Niger-Congo
 - Central West Africa Niger-Congo
 - East Africa Niger-Congo
 - East Africa Nilo-Saharan
 - East Africa Afro-Asiatic
 - South Africa Niger-Congo
 - South Africa KhoeSan
 - Eurasia (not shown)
- | | | | | |
|----------------------------|---------------------------------|--------------------------|-------------------------|--------------------------|
| WESTERN NIGER-CONGO | CENTRAL WEST NIGER-CONGO | EAST AFROASIATIC | EAST NIGER-CONGO | SOUTH NIGER-CONGO |
| ■ FULA (MG) [151] | ● YORUBA (1K) [101] | ● AFAR (PA) [12] | ▼ LUHYA (1K) [91] | ● MALAWI (MG) [100] |
| ◆ JOLA (MG) [116] | ● MOSSI (MG) [50] | ■ AMHARA (PA) [26] | ◆ MZIGUA (MG) [50] | ▲ AMAXHOSA (PE) [15] |
| ● MANDINKA (MG) [103] | ◆ AKANS (MG) [50] | ▲ OROMO (PA) [21] | ● WABONDEI (MG) [48] | ◆ SEBANTU (PE) [20] |
| ▼ MANJAGO (MG) [47] | ■ KASEM (MG) [50] | ◆ TIGRAY (PA) [21] | ■ WASAMBAA (MG) [50] | |
| ■ SEREHULE (MG) [47] | ● NAMKAM (MG) [50] | ● ARI (PA) [41] | ● CHONYI (MG) [47] | SOUTH KHOESAN |
| ● SERERE (MG) [50] | ■ BANTU (MG) [50] | ■ WOLAYTA (PA) [8] | ■ GIRIAMA (MG) [46] | ■ !XUN (PS) [33] |
| ▲ WOLLOF (MG) [108] | ● SEMI-BANTU (MG) [50] | ● SOMALI (PA) [40] | ▲ KAMBE (MG) [42] | ● JU/'HOANSI (PS) [37] |
| ■ BAMBARA (MG) [50] | | EAST NILO-SAHARAN | ◆ KAUMA (MG) [97] | ● KHWE (SC) [17] |
| ● MALINKE (MG) [49] | | ● MAASAI (1K) [31] | | ◆ HERERO (SC) [12] |
| | | ● SUDANESE (PA) [24] | | ■ NAMA (SC) [20] |
| | | ● ANUAK (PA) [23] | | ● /GUI//GANA (SC) [15] |
| | | ■ GUMUZ (PA) [19] | | ● KARRETJIE (SC) [20] |
| | | | | ■ =KHOMANI (SC) [39] |