

**POLYMARKER (LDLR, GYPA, HBGG, D7S8, GC)**

Systems			LDLR		GYPA		HBGG			D7S8		GC		
Alleles			A	B	A	B	A	B	C	A	B	A	B	C
Population	Ref.	n												
<b>Europe</b>														
<b>Basques (pooled)</b>		<b>516</b>	<b>0.4691</b>	<b>0.5309</b>	<b>0.5369</b>	<b>0.4631</b>	<b>0.5243</b>	<b>0.4728</b>	<b>0.0029</b>	<b>0.5185</b>	<b>0.4815</b>	<b>0.3285</b>	<b>0.0998</b>	<b>0.5717</b>
Basques (Spain)	(1)	208	0.4375	0.5625	0.5144	0.4856	0.5337	0.4591	0.0072	0.5745	0.4255	0.3389	0.0962	0.5649
Basques (autochthonous, Spain)	(2)	206	0.5243	0.4757	0.5413	0.4587	0.5243	0.4757	0.0000	0.5146	0.4854	0.3301	0.1044	0.5655
Basques (autochthonous, Spain)	(64)	102	0.4220	0.5780	0.5740	0.4260	0.5050	0.4950	0.0000	0.4120	0.5880	0.3040	0.0980	0.5980
<b>Germany (pooled)</b>		1701GC:1699	<b>0.4202</b>	<b>0.5798</b>	<b>0.5520</b>	<b>0.4480</b>	<b>0.5182</b>	<b>0.4733</b>	<b>0.0085</b>	<b>0.6078</b>	<b>0.3922</b>	<b>0.2850</b>	<b>0.1428</b>	<b>0.5723</b>
Germany (Bochum, Essen, Recklinghausen)	(59)	80 GC: 78	0.5130	0.4880	0.5250	0.4750	0.5250	0.4750	0.0000	0.6130	0.3880	0.3210	0.1540	0.5260
Hungary (Roma)	(55)	135	0.4190	0.5810	0.6930	0.3070	0.3590	0.6370	0.0040	0.7850	0.2150	0.2670	0.1440	0.5890
<b>Italy (pooled)</b>		<b>931</b>	<b>0.4364</b>	<b>0.5641</b>	<b>0.5441</b>	<b>0.4559</b>	<b>0.4683</b>	<b>0.5199</b>	<b>0.0117</b>	<b>0.6038</b>	<b>0.3973</b>	<b>0.2867</b>	<b>0.1606</b>	<b>0.5527</b>
Italy	(47)	200	0.4725	0.5275	0.5450	0.4550	0.4375	0.5500	0.0125	0.5350	0.4650	0.3025	0.1625	0.5350
Italy	(49)	157	0.4680	0.5350	0.5350	0.4650	0.4395	0.5446	0.0159	0.6369	0.3631	0.2484	0.1656	0.5860
Italy (North-West, Piedmont)	(54)	100	0.4400	0.5600	0.5400	0.4600	0.4500	0.5450	0.0050	0.6350	0.3650	0.3050	0.1550	0.5400
<b>Poland (pooled)</b>		<b>307</b>	<b>0.4170</b>	<b>0.5830</b>	<b>0.6223</b>	<b>0.3777</b>	<b>0.5313</b>	<b>0.4687</b>	<b>0.0000</b>	<b>0.6536</b>	<b>0.3464</b>	<b>0.2950</b>	<b>0.1143</b>	<b>0.5910</b>
Poland (South)	(44)	102	0.4310	0.5690	0.6270	0.3730	0.5540	0.4460	0.0000	0.6810	0.3190	0.2650	0.1230	0.6130
<b>Portugal (pooled)</b> (Azores and Madeira Islands not included)		<b>662</b>	<b>0.4246</b>	<b>0.5754</b>	<b>0.5394</b>	<b>0.4606</b>	<b>0.5083</b>	<b>0.4760</b>	<b>0.0166</b>	<b>0.5958</b>	<b>0.4042</b>	<b>0.3043</b>	<b>0.1458</b>	<b>0.5499</b>
Portugal (Alentejo)	(52)	89	0.4610	0.5390	0.6240	0.3760	0.4890	0.4940	0.0170	0.6350	0.3650	0.3260	0.1290	0.5450
Portugal (Algarve)	(52)	31	0.3060	0.6940	0.4840	0.5160	0.5160	0.4350	0.0480	0.6770	0.3230	0.2740	0.2260	0.5000
Portugal (Estremadura)	(52)	187	0.4200	0.5800	0.5160	0.4840	0.5320	0.4630	0.0050	0.6040	0.3960	0.2750	0.1420	0.5830
Portugal (Azores Islands)	(52)	58	0.5090	0.4910	0.4480	0.5520	0.5170	0.4660	0.0170	0.5430	0.4570	0.2410	0.1720	0.5860
Portugal (Madeira Island)	(52)	149	0.3990	0.6010	0.5170	0.4830	0.4230	0.5600	0.0170	0.6070	0.3930	0.2620	0.1850	0.5540
<b>Spain (pooled)</b> (without Canary Isles)		<b>2241</b>	<b>0.4481</b>	<b>0.5519</b>	<b>0.5184</b>	<b>0.4816</b>	<b>0.4961</b>	<b>0.4951</b>	<b>0.0090</b>	<b>0.5535</b>	<b>0.4465</b>	<b>0.3137</b>	<b>0.1590</b>	<b>0.5273</b>
Spain (North-East)	(18, 42)	197	0.4568	0.5432	0.5279	0.4721	0.4467	0.5381	0.0152	0.5508	0.4492	0.3071	0.1675	0.5254
Spain (Andalusia)	(65)	235	0.4553	0.5447	0.5043	0.4957	0.4872	0.4979	0.0149	0.5574	0.4426	0.3106	0.1766	0.5128
Spain (Central)	(66)	315	0.4333	0.5667	0.5364	0.4636	0.4873	0.5048	0.0079	0.5712	0.4288	0.3196	0.1535	0.5269

Spain (Central Pyrenees)	(46)	106	0.4950	0.5050	0.5240	0.4760	0.5240	0.4720	0.0050	0.4620	0.5380	0.3540	0.1650	0.4810
Spain (Teruel)	(46)	99	0.4490	0.5510	0.5350	0.4650	0.4040	0.5860	0.0100	0.5660	0.4340	0.3790	0.1110	0.5100
Spain (Zaragoza)	(67)	166	0.4428	0.5572	0.5075	0.4925	0.5099	0.4876	0.0025	0.5174	0.4826	0.3284	0.1269	0.5448
<b>America, North</b>														
<b>USA (Afroamericans) (pooled)</b>		736	<b>0.1998</b>	<b>0.8002</b>	<b>0.5087</b>	<b>0.4913</b>	<b>0.4368</b>	<b>0.2395</b>	<b>0.3241</b>	<b>0.6475</b>	<b>0.3525</b>	<b>0.0956</b>	<b>0.7270</b>	<b>0.1774</b>
USA (Afroamericans)	(57)	206	0.1940	0.8060	0.4760	0.5240	0.4300	0.2380	0.3330	0.6630	0.3370	0.0870	0.7500	0.1630
USA (Afroamericans, New Jersey)	(51)	285	0.1740	0.8260	0.5330	0.4670	0.4120	0.2550	0.3330	0.6490	0.3510	0.1070	0.7160	0.1770
<b>USA (Caucasoids) pooled</b>		611	<b>0.4324</b>	<b>0.5676</b>	<b>0.5450</b>	<b>0.4550</b>	<b>0.4756</b>	<b>0.5189</b>	<b>0.0058</b>	<b>0.5981</b>	<b>0.4019</b>	<b>0.2882</b>	<b>0.1536</b>	<b>0.5579</b>
USA (Caucasoids)	(57)	199	0.4350	0.5650	0.5330	0.4670	0.4850	0.5150	0.0000	0.5700	0.4300	0.3070	0.1530	0.5400
USA (Caucasoids, New Jersey)	(51)	164	0.4120	0.5880	0.5640	0.4360	0.4360	0.5610	0.0030	0.6280	0.3720	0.2680	0.1400	0.5910
USA (Caucasoids, New York City, Hasidic Jewish subpopulation)	(45)	111	0.4400	0.5600	0.5700	0.4300	0.3500	0.6400	0.0100	0.5200	0.4800	0.2800	0.1400	0.5800
USA (Caucasoids, New York City, non-Hasidic Jewish subpopulation)	(45)	109	0.3900	0.6100	0.5800	0.4200	0.4300	0.5500	0.0200	0.6000	0.4000	0.2800	0.1700	0.5500
<b>USA (Hispanics) (pooled)</b>		626	<b>0.4764</b>	<b>0.5241</b>	<b>0.6063</b>	<b>0.3937</b>	<b>0.3747</b>	<b>0.5840</b>	<b>0.0415</b>	<b>0.5998</b>	<b>0.4002</b>	<b>0.2309</b>	<b>0.2650</b>	<b>0.5041</b>
USA Southwestern Hispanics	(57)	208	0.4670	0.5340	0.6350	0.3650	0.3340	0.6470	0.0190	0.5870	0.4130	0.2070	0.2690	0.5240
USA (Hispanics, New Jersey)	(51)	128	0.4690	0.5310	0.5740	0.4260	0.4140	0.5080	0.0780	0.5230	0.4770	0.2300	0.2580	0.5120
<b>America, Central</b>														
<b>Costa Rica (Afro-Caribians)</b>	(63)	72	<b>0.3611</b>	<b>0.6389</b>	<b>0.5555</b>	<b>0.4445</b>	<b>0.4028</b>	<b>0.4514</b>	<b>0.1458</b>	<b>0.6944</b>	<b>0.3056</b>	<b>0.1736</b>	<b>0.4028</b>	<b>0.4236</b>
<b>Costa Rica (Amerindians, Bribri-Cabecars)</b>	(63)	59	<b>0.7288</b>	<b>0.2712</b>	<b>0.8898</b>	<b>0.1102</b>	<b>0.2966</b>	<b>0.6780</b>	<b>0.0254</b>	<b>0.5254</b>	<b>0.4746</b>	<b>0.1186</b>	<b>0.2373</b>	<b>0.6441</b>
<b>Costa Rica (Hispanic admixed individuals)</b>	(63)	1204	<b>0.5307</b>	<b>0.4693</b>	<b>0.6163</b>	<b>0.3837</b>	<b>0.3717</b>	<b>0.5706</b>	<b>0.0577</b>	<b>0.6375</b>	<b>0.3625</b>	<b>0.2006</b>	<b>0.2583</b>	<b>0.5411</b>
<b>America, South</b>														
<b>Argentina (Buenos Aires)</b>	(69)	109	<b>0.4500</b>	<b>0.5500</b>	<b>0.6100</b>	<b>0.3900</b>	<b>0.4590</b>	<b>0.5320</b>	<b>0.0090</b>	<b>0.5640</b>	<b>0.4360</b>	<b>0.3210</b>	<b>0.2020</b>	<b>0.4770</b>
<b>Chile (Santiago)</b>	(62)	129	<b>0.5470</b>	<b>0.4530</b>	<b>0.5740</b>	<b>0.4260</b>	<b>0.4340</b>	<b>0.5310</b>	<b>0.0350</b>	<b>0.6710</b>	<b>0.3290</b>	<b>0.2290</b>	<b>0.1670</b>	<b>0.6050</b>
<b>Colombia (Bogotá)</b>	(68)	151	<b>0.6093</b>	<b>0.3907</b>	<b>0.6722</b>	<b>0.3278</b>	<b>0.4172</b>	<b>0.5497</b>	<b>0.0331</b>	<b>0.6225</b>	<b>0.3775</b>	<b>0.2351</b>	<b>0.2119</b>	<b>0.5530</b>
<b>Asia, South-West</b>														
Cyprus (Greek Cypriots)	(53)	107	0.4860	0.5140	0.5981	0.4019	0.5000	0.4673	0.0327	0.6355	0.3645	0.3178	0.1776	0.5047
Jordania	(60)	139	0.4390	0.5610	0.6330	0.3670	0.3780	0.5830	0.0390	0.6150	0.3850	0.2550	0.1940	0.5510
Oman (Sultanate)	(61)	157	0.4390	0.5610	0.6620	0.3380	0.3310	0.5670	0.1020	0.6340	0.3660	0.1820	0.2520	0.5670
United Arab Emirates, Abu Dhabi (Arabs)	(48)	100	0.4350	0.5650	0.7300	0.2700	0.3450	0.6050	0.0500	0.6300	0.3700	0.2000	0.2750	0.5250

<b>Asia, Indian Subcontinent</b>														
Pakistani (living in Abu Dhabi)	(48)	100	0.4500	0.5500	0.6100	0.3900	0.5350	0.4550	0.0100	0.7400	0.2600	0.2400	0.2050	0.5550
<b>Asia, Far East</b>														
Japan (pooled)		1083	<b>0.1714</b>	<b>0.8286</b>	<b>0.5651</b>	<b>0.4349</b>	<b>0.3257</b>	<b>0.6743</b>	<b>0.0000</b>	<b>0.6160</b>	<b>0.3840</b>	<b>0.2627</b>	<b>0.5032</b>	<b>0.2341</b>
Japan (Gifu Prefecture)	(43)	366	0.1872	0.8128	0.5656	0.4344	0.2896	0.7104	0.0000	0.6189	0.3811	0.2623	0.5150	0.2227
<b>Oceania: Australia, Polynesia, Melanesia</b>														
Mariana Islands, USA (Chamorro, Guam)	(50)	97	<b>0.2320</b>	<b>0.7680</b>	<b>0.5050</b>	<b>0.4950</b>	<b>0.2270</b>	<b>0.7730</b>	<b>0.0000</b>	<b>0.4590</b>	<b>0.5410</b>	<b>0.2580</b>	<b>0.4230</b>	<b>0.3200</b>
Mariana Islands, USA (Filipino, Guam)	(50)	96	<b>0.2920</b>	<b>0.7080</b>	<b>0.5000</b>	<b>0.5000</b>	<b>0.1820</b>	<b>0.8180</b>	<b>0.0000</b>	<b>0.5420</b>	<b>0.4580</b>	<b>0.2240</b>	<b>0.4740</b>	<b>0.3020</b>
<b>Africa</b>														
Morocco (Arabic-speaking)	(58)	144	<b>0.3830</b>	<b>0.6170</b>	<b>0.5520</b>	<b>0.4480</b>	<b>0.3450</b>	<b>0.5720</b>	<b>0.0830</b>	<b>0.5760</b>	<b>0.4240</b>	<b>0.1170</b>	<b>0.3620</b>	<b>0.5210</b>
Morocco (Berber-speaking)	(58)	41	<b>0.3380</b>	<b>0.6620</b>	<b>0.6000</b>	<b>0.4000</b>	<b>0.3380</b>	<b>0.5500</b>	<b>0.1120</b>	<b>0.4880</b>	<b>0.5120</b>	<b>0.1620</b>	<b>0.3500</b>	<b>0.4880</b>

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