



HLA-DRB1 Locus Rare Allele List

Total Count = number observed in 1,705,671 typings

Allele	AFA	API	CAU	HIS	NAM	OTH	Total Count	Rare (< 1:100,000)	Zero	Publish Date
DRB1*0104	0	3	6	0	0	1	10	X		1993.02.26
DRB1*0105	0	0	4	0	0	0	4	X		1998.08.18
DRB1*0107	0	0	4	0	0	0	4	X		2000.08.17
DRB1*0108	0	0	0	1	0	0	1	X		2001.05.30
DRB1*0109	0	0	0	0	0	0	0		X	2002.08.30
DRB1*0110	0	0	0	0	0	0	0		X	2002.10.25
DRB1*0111	0	0	0	0	0	0	0		X	2003.09.22
DRB1*0112	0	0	0	0	0	0	0		X	2004.12.20
DRB1*0113	0	0	0	0	0	0	0		X	2005.04.29
DRB1*0309	0	0	0	0	0	0	0		X	1996.03.26
DRB1*0310	0	1	4	0	0	0	5	X		1996.10.25
DRB1*0311	0	1	6	2	1	0	10	X		1996.12.29
DRB1*0312	1	0	2	0	0	0	3	X		1998.08.19
DRB1*0313	0	0	2	1	0	2	5	X		1998.12.09
DRB1*0314	0	0	0	0	0	0	0		X	1999.02.16
DRB1*0316	0	0	0	1	0	0	1	X		1999.11.25
DRB1*0317	0	0	2	0	0	0	2	X		1999.11.25
DRB1*0318	0	0	0	0	0	0	0		X	2000.11.22
DRB1*0319	0	0	1	0	0	0	1	X		2001.01.31
DRB1*0320	1	0	0	1	0	0	2	X		2001.03.20
DRB1*0321	0	0	0	0	0	0	0		X	2001.08.29
DRB1*0322	0	0	0	0	0	0	0		X	2001.12.20
DRB1*0323	0	0	0	0	0	0	0		X	2002.06.27
DRB1*0324	0	0	1	0	0	0	1	X		2002.11.28
DRB1*0325	0	0	0	0	0	0	0		X	2002.12.12
DRB1*0326	0	0	0	0	0	0	0		X	2004.02.27
DRB1*0327	0	0	0	0	0	0	0		X	2004.05.20
DRB1*0328	0	0	1	0	0	0	1	X		2004.05.20
DRB1*0412	0	8	2	1	0	0	11	X		1991.11.14
DRB1*0416	0	0	6	0	0	0	6	X		1993.02.04
DRB1*0419	0	0	3	6	0	0	9	X		1993.07.29
DRB1*0420	0	0	1	0	0	0	1	X		1994.05.19
DRB1*0421	0	0	2	0	0	0	2	X		1994.08.16
DRB1*0423	0	0	0	2	0	1	3	X		1996.01.15
DRB1*0424	3	1	4	6	0	3	17	X		1996.07.28
DRB1*0425	0	0	0	1	0	0	1	X		1997.03.03
DRB1*0426	0	0	7	0	0	0	7	X		1997.10.10
DRB1*0427	1	0	5	5	0	0	11	X		1997.12.09
DRB1*0428	0	0	0	0	0	0	0		X	1998.03.06
DRB1*0429	0	0	0	0	0	0	0		X	1998.03.06
DRB1*0430	0	0	0	0	0	0	0		X	1998.08.18
DRB1*0431	0	0	3	2	0	0	5	X		1998.08.18
DRB1*0432	0	2	8	4	0	3	17	X		1998.08.19
DRB1*0433	0	0	5	0	0	0	5	X		1999.06.25
DRB1*0434	0	0	4	1	0	1	6	X		1999.11.29
DRB1*0436	0	1	1	0	0	0	2	X		2000.05.10

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Allele	AFA	API	CAU	HIS	NAM	OTH	Total Count	Rare (< 1:100,000)	Zero	Publish Date
DRB1*0437	0	0	1	0	0	0	1	X		2000.10.25
DRB1*0438	0	0	5	0	0	1	6	X		2000.10.25
DRB1*0439	0	0	2	0	0	0	2	X		2001.02.20
DRB1*0440	0	0	8	1	0	2	11	X		2001.03.20
DRB1*0441	0	4	0	0	0	1	5	X		2001.02.27
DRB1*0442	0	0	0	0	0	0	0		X	2001.03.20
DRB1*0443	0	0	0	1	0	0	1	X		2001.08.29
DRB1*0444	1	0	1	0	0	0	2	X		2002.04.28
DRB1*0445	0	0	0	0	0	0	0		X	2002.12.12
DRB1*0446	0	0	0	0	0	0	0		X	2003.05.22
DRB1*0447	0	0	0	0	0	0	0		X	2003.07.22
DRB1*0448	0	0	0	0	0	0	0		X	2003.08.20
DRB1*0449	0	0	0	0	0	0	0		X	2003.09.22
DRB1*0450	0	0	1	0	0	0	1	X		2003.10.24
DRB1*0451	0	0	0	0	0	0	0		X	2004.12.13
DRB1*0452	0	0	0	0	0	0	0		X	2004.12.20
DRB1*0453	0	0	6	0	0	2	8	X		2005.03.22
DRB1*0454	0	0	0	0	0	0	0		X	2005.07.26
DRB1*0455	0	0	0	0	0	0	0		X	2005.07.26
DRB1*0456	0	0	0	0	0	0	0		X	2005.07.26
DRB1*0703	0	12	1	0	0	0	13	X		1997.10.09
DRB1*0704	0	1	3	0	0	1	5	X		1998.03.05
DRB1*0705	1	0	1	0	0	0	2	X		2000.01.31
DRB1*0706	0	0	0	0	0	0	0		X	2001.08.29
DRB1*0707	0	0	3	0	0	0	3	X		2002.08.30
DRB1*0708	0	0	0	0	0	0	0		X	2003.07.31
DRB1*0709	0	0	0	0	0	0	0		X	2004.10.31
DRB1*0710N	0	0	0	0	0	0	0		X	2005.05.31
DRB1*0808	13	0	2	1	0	1	17	X		1993.11.05
DRB1*0812	0	6	4	0	0	1	11	X		1995.07.26
DRB1*0815	0	0	0	0	0	0	0		X	1996.07.28
DRB1*0816	0	0	0	0	0	0	0		X	1996.10.21
DRB1*0817	0	0	6	0	0	1	7	X		1997.03.24
DRB1*0819	0	0	0	0	0	0	0		X	1997.10.03
DRB1*0820	3	0	1	0	0	0	4	X		1998.03.16
DRB1*0821	0	0	1	0	0	0	1	X		1998.06.26
DRB1*0822	0	0	1	0	0	1	2	X		2000.07.31
DRB1*0823	0	0	0	0	0	0	0		X	2000.12.11
DRB1*0824	0	0	2	0	0	0	2	X		2001.04.26
DRB1*0825	0	0	0	0	0	0	0		X	2003.04.30
DRB1*0826	0	0	0	0	0	0	0		X	2003.09.22
DRB1*0827	0	0	0	0	0	0	0		X	2003.10.24
DRB1*0828	0	0	1	0	0	0	1	X		2004.01.28
DRB1*0829	0	0	0	0	0	0	0		X	2004.04.30
DRB1*0830	0	0	0	0	0	1	1	X		2004.10.31
DRB1*0831	0	0	0	0	0	0	0		X	2005.10.25

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DRB1*0832	0	0	0	0	0	0	0		X	2005.11.21
DRB1*0902	0	1	1	0	0	0	2	X		2001.07.31
DRB1*0903	0	0	0	0	0	0	0		X	2003.12.15
DRB1*0904	0	0	0	0	0	0	0		X	2004.10.31
DRB1*0905	0	0	0	0	0	0	0		X	2005.04.29
DRB1*1118	0	4	5	1	0	3	13	X		1994.11.03
DRB1*1120	2	0	3	1	0	0	6	X		1995.05.09
DRB1*1121	1	1	0	0	0	0	2	X		1995.05.10
DRB1*1122	0	1	10	0	0	1	12	X		1995.05.19
DRB1*1123	0	1	2	0	0	0	3	X		1995.06.25
DRB1*1124	0	0	10	1	1	0	12	X		1995.07.30
DRB1*1125	2	0	3	0	0	0	5	X		1995.11.07
DRB1*1126	0	0	9	0	0	0	9	X		1996.01.15
DRB1*1127	0	0	9	1	0	1	11	X		1996.02.28
DRB1*1128	2	0	3	2	0	0	7	X		1996.06.21
DRB1*1129	0	1	2	1	0	0	4	X		1996.10.21
DRB1*1131	0	1	1	0	0	0	2	X		1997.03.03
DRB1*1132	1	0	7	0	0	0	8	X		1998.03.16
DRB1*1133	0	1	6	0	0	0	7	X		1998.06.30
DRB1*1134	0	0	15	0	0	1	16	X		1998.09.28
DRB1*1135	0	0	0	0	0	0	0		X	1998.12.26
DRB1*1136	5	0	9	1	0	0	15	X		1999.07.16
DRB1*1137	2	2	3	1	0	0	8	X		1999.11.25
DRB1*1138	0	0	1	0	0	0	1	X		2000.03.31
DRB1*1139	0	0	9	1	0	0	10	X		2000.06.20
DRB1*1141	0	0	1	1	2	0	4	X		2000.07.31
DRB1*1142	0	0	0	0	0	1	1	X		2001.02.26
DRB1*1143	0	0	16	0	0	1	17	X		2001.11.30
DRB1*1144	0	0	0	0	0	0	0		X	2003.07.22
DRB1*1145	0	0	0	8	0	2	10	X		2003.07.31
DRB1*1146	0	0	0	0	0	0	0		X	2003.08.19
DRB1*1147	0	0	0	15	0	0	15	X		2003.09.22
DRB1*1148	3	0	0	0	0	0	3	X		2003.10.24
DRB1*1149	0	0	0	0	0	0	0		X	2003.12.15
DRB1*1150	0	0	0	0	0	0	0		X	2004.02.27
DRB1*1151	0	0	0	1	0	0	1	X		2004.04.30
DRB1*1152	0	0	2	0	0	0	2	X		2004.05.20
DRB1*1153	0	0	1	0	0	0	1	X		2004.06.25
DRB1*1154	0	1	0	0	0	0	1	X		2004.07.31
DRB1*1206	0	0	9	0	0	0	9	X		1998.11.25
DRB1*1207	1	0	0	0	0	0	1	X		2000.11.22
DRB1*1208	0	8	0	0	0	0	8	X		2001.05.30
DRB1*1209	0	0	0	0	0	0	0		X	2003.09.29
DRB1*1210	0	0	0	0	0	0	0		X	2004.05.24
DRB1*1211	0	0	0	0	0	0	0		X	2004.12.20
DRB1*1212	0	0	0	0	0	0	0		X	2005.02.18

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Allele	AFA	API	CAU	HIS	NAM	OTH	Total Count	Rare (< 1:100,000)	Zero	Publish Date
DRB1*1213	0	0	0	0	0	0	0		X	2005.11.21
DRB1*1317	1	0	5	1	0	0	7	X		1994.10.17
DRB1*1322	1	0	14	0	0	0	15	X		1995.05.18
DRB1*1323	3	0	0	0	0	0	3	X		1995.11.10
DRB1*1325	0	0	6	2	0	1	9	X		1996.05.07
DRB1*1326	0	0	1	3	0	1	5	X		1996.05.27
DRB1*1328	0	0	2	2	0	0	4	X		1996.07.17
DRB1*1329	1	0	5	0	0	2	8	X		1996.10.26
DRB1*1330	0	0	0	0	0	0	0		X	1996.12.11
DRB1*1332	1	0	1	0	0	0	2	X		1997.06.02
DRB1*1333	0	0	0	0	0	0	0		X	1997.10.10
DRB1*1334	0	0	0	0	0	0	0		X	1998.09.01
DRB1*1335	1	0	0	0	0	0	1	X		1999.06.09
DRB1*1338	10	0	3	0	0	1	14	X		1999.11.25
DRB1*1339	1	2	1	0	0	1	5	X		1999.11.29
DRB1*1340	0	0	2	6	0	2	10	X		2000.01.31
DRB1*1341	2	0	1	0	0	0	3	X		2000.02.23
DRB1*1342	0	0	5	0	0	2	7	X		2000.03.31
DRB1*1343	0	0	1	0	0	0	1	X		2000.03.31
DRB1*1344	0	0	0	0	0	0	0		X	2000.03.31
DRB1*1345	0	0	0	0	0	0	0		X	2000.05.10
DRB1*1346	0	0	0	0	0	0	0		X	2000.10.25
DRB1*1347	0	1	0	0	0	1	2	X		2000.10.25
DRB1*1348	0	0	0	0	0	0	0		X	2001.02.26
DRB1*1350	0	0	0	0	0	0	0		X	2001.10.31
DRB1*1351	0	0	1	0	0	0	1	X		2002.04.28
DRB1*1352	1	0	1	0	0	1	3	X		2002.07.31
DRB1*1353	0	0	1	1	0	0	2	X		2002.08.30
DRB1*1354	0	0	0	0	0	0	0		X	2002.08.30
DRB1*1355	0	0	0	0	0	0	0		X	2002.11.28
DRB1*1356	0	0	3	1	0	1	5	X		2003.04.30
DRB1*1357	0	0	0	0	0	0	0		X	2003.04.30
DRB1*1358	0	0	0	0	0	0	0		X	2003.04.30
DRB1*1359	0	0	0	14	0	1	15	X		2003.04.30
DRB1*1360	0	0	0	0	0	0	0		X	2003.06.13
DRB1*1361	0	1	0	0	0	0	1	X		2003.07.31
DRB1*1362	0	0	0	0	0	0	0		X	2003.09.22
DRB1*1363	0	0	0	0	0	0	0		X	2004.01.28
DRB1*1364	0	0	0	0	0	0	0		X	2004.05.20
DRB1*1365	0	0	0	0	0	0	0		X	2004.08.25
DRB1*1366	0	0	0	0	0	0	0		X	2004.10.31
DRB1*1367	0	0	0	0	0	0	0		X	2004.11.29
DRB1*1368	0	0	0	0	0	0	0		X	2005.04.29
DRB1*1369	0	0	0	0	0	0	0		X	2005.07.26
DRB1*1370	0	0	0	0	0	0	0		X	2005.10.25
DRB1*1371	0	0	0	0	0	0	0		X	2005.11.21

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DRB1*1414	0	2	0	0	0	0	2	X		1993.08.09
DRB1*1426	0	0	0	0	0	0	0		X	1996.07.28
DRB1*1427	0	2	0	3	0	2	7	X		1996.07.28
DRB1*1428	1	15	0	1	0	0	17	X		1996.10.21
DRB1*1429	0	10	0	0	1	4	15	X		1996.10.26
DRB1*1430	0	0	0	0	0	0	0		X	1997.04.11
DRB1*1431	0	1	0	0	0	0	1	X		1997.10.30
DRB1*1432	1	0	1	0	0	0	2	X		1998.12.09
DRB1*1433	0	10	3	1	0	2	16	X		1998.12.26
DRB1*1434	0	1	0	0	0	0	1	X		1999.11.29
DRB1*1435	0	0	2	1	0	0	3	X		1999.11.29
DRB1*1436	0	0	0	0	0	0	0		X	1999.11.29
DRB1*1437	0	0	0	0	0	0	0		X	2000.03.02
DRB1*1438	0	0	0	0	0	0	0		X	2000.12.11
DRB1*1439	0	3	0	0	0	0	3	X		2000.12.11
DRB1*1440	0	0	0	0	0	0	0		X	2000.12.11
DRB1*1441	0	0	1	2	0	1	4	X		2001.08.29
DRB1*1442	2	0	0	0	0	0	2	X		2001.10.31
DRB1*1443	0	0	0	0	0	0	0		X	2002.01.25
DRB1*1444	0	3	0	0	0	0	3	X		2002.08.30
DRB1*1445	0	0	0	0	0	0	0		X	2002.08.30
DRB1*1446	0	0	0	0	0	0	0		X	2002.12.16
DRB1*1447	0	0	1	0	1	0	2	X		2003.04.30
DRB1*1449	0	0	0	0	0	0	0		X	2005.02.18
DRB1*1450	0	0	0	0	0	0	0		X	2005.05.31
DRB1*1451	0	0	0	0	0	0	0		X	2005.05.31
DRB1*1452	0	0	0	0	0	0	0		X	2005.05.31
DRB1*1453	0	0	0	0	0	0	0		X	2005.09.23
DRB1*1454	0	0	0	0	0	0	0		X	2005.10.25
DRB1*1455	0	0	0	0	0	0	0		X	2005.12.30
DRB1*1505	2	0	4	0	1	0	7	X		1995.05.17
DRB1*1507	0	0	4	0	0	0	4	X		1998.03.05
DRB1*1508	0	0	0	0	0	0	0		X	1998.03.06
DRB1*1509	0	1	4	0	0	0	5	X		1999.11.29
DRB1*1511	0	3	0	0	0	1	4	X		2000.10.25
DRB1*1512	0	1	0	0	0	0	1	X		2001.09.21
DRB1*1513	0	0	1	0	0	0	1	X		2001.10.31
DRB1*1514	0	3	0	0	0	0	3	X		2003.10.24
DRB1*1515	0	0	0	0	0	0	0		X	2004.06.25
DRB1*1516	0	0	0	0	0	0	0		X	2004.09.24
DRB1*1517N	0	0	0	0	0	0	0		X	2005.05.31
DRB1*1518	0	0	0	0	0	0	0		X	2005.08.25
DRB1*1603	4	0	2	0	0	0	6	X		1993.02.26
DRB1*1607	0	0	6	6	0	0	12	X		1996.05.07
DRB1*1609	0	0	0	0	0	0	0		X	2005.02.18
DRB1*1610	0	0	0	0	0	0	0		X	2005.09.23

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