

RHD (ISBT 004) weak D and Del alleles v5.0 180207

Phenotype	Allele name	Nucleotide Change(s)	Exon	AminoAcid change(s)	Allele Name Detail	Comments
Type 1	RHD*01W.1 RHD*weak D type 1	c.809T>G	6	p.Val270Gly	RHD*809G	
Type 1.1	RHD*01W.1.1 RHD*weak D type 1.1	c.52C>G; c.809T>G	1, 6	p.Leu18Val; p.Val270Gly	RHD*52G, 809G	
Type1.2	RHD*01W.1.2 RHD*weak D type 1.2	c.712G>A; c.809T>G	5,6	p.Val238Met; p.Val270Gly	RHD*712A, 809G	
Type 2	RHD*01W.2 RHD*weak D type 2	c.1154G>C	9	p.Gly385Ala	RHD*1154C	Splice site change also
Type 2.1	RHD*01W.2.1 RHD*weak D type 2.1	c.301T>A; c.1154G>C	2 9	p.Phe101Ile; p.Gly385Ala	RHD*301T,115 4C	
Type2.2	RHD*01W.2.2 RHD*weak D type 2.2	c.916G>A; c.932A>G; c.1154G>C	6,9	p.Val306Ile; p.Tyr311Cys; p.Gly385Ala	RHD*916A, 932G, 1154C	
Type 3	RHD*01W.3 RHD*weak D type 3	c.8C>G	1	p.Ser3Cys	RHD*8G	
Type3.1	RHD*01W.3.1 RHD*weak D type 3.1	c.8C>G; c.178A>C	1,2	p.Ser3Cys; p.Ile60Leu	RHD*8G, 178C	
Type 4.0, 4.1, 4.2, 4.2.2 weak partial	*See partial DAR RHD*09.03, 04, 05 RHD*weak partial 4					
Type 5	RHD*01W.5 RHD*weak D type 5	c.446C>A	3	p.Ala149Asp	RHD*446A	
Type 6	RHD*01W.6 RHD*weak D type 6	c.29G>A	1	p.Arg10Gln	RHD*29A	
Type 7	RHD*01W.7 RHD*weak D type 7	c.1016G>A	7	p.Gly339Glu	RHD*1016A	
Type 8	RHD*01W.8 RHD*weak D type 8	c.919G>A	6	p.Gly307Arg	RHD*919A	
Type 9	RHD*01W.9 RHD*weak D type 9	c.880G>C	6	p.Ala294Pro	RHD*880C	
Type 10	RHD*01W.10 RHD*weak D type 10	c.1177T>C	9	p.Trp393Arg	RHD*1177C	
Type 10.1	RHD*01W.10.1 RHD*weak D type 10.1	c.1145T>C; c.1177T>C	8 9	p.Leu382Pro; p.Trp393Arg	RHD*1145C, 1177C,	
Type 10.2	RHD*01W.10.2 RHD*weak D type 10.2	c.1177T>C; c.1199A>C	9	p.Trp393Arg; p.Lys400Thr	RHD*1177C,11 99C	
Type 11 weak partial or Del phenotype	See partial RHD*11	c.885G>T	6	p.Met295Ile	RHD*885T	allo-anti-D reported Del phenotype when with Ce
Type 12	RHD*01W.12 RHD*weak D type 12	c.830G>A	6	p.Gly277Glu	RHD*830A	
Type 13	RHD*01W.13 RHD*weak D type 13	c.826G>C	6	p.Ala276Pro	RHD*826C	
Type 14	RHD*01W.14 RHD*weak D type 14	c.544T>A; c.594A>T; c.602C>G	4	p.Ser182Thr; p.Lys198Asn; p.Thr201Arg	RHD*544A, 594T, 602G	
Type 15 weak partial phenotype	See partial RHD*15					allo-anti-D reported
Type 16	RHD*01W.16 RHD*weak D type 16	c.658T>C	5	p.Trp220Arg	RHD*658C	
Type 17	RHD*01W.17 RHD*weak D type 17	c.340C>T	3	p.Arg114Trp	RHD*340T	

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Phenotype	Allele name	Nucleotide Change(s)	Exon	AminoAcid change(s)	Allele Name Detail	Comments
Type 18	RHD*01W.18 RHD*weak D type 18	c.19C>T	1	p.Arg7Trp	RHD*19T	
Type 19	RHD*01W.19 RHD*weak D type 19	c.611T>C	4	p.Ile204Thr	RHD*611C	
Type 20	RHD*01W.20 RHD*weak D type 20	c.1250T>C	10	p.Phe417Ser	RHD*1250C	
Type 21	See partial RHD*21					allo-anti-D reported
Type 22	RHD*01W.22 RHD*weak D type 22	c.1224G>C	9	p.Trp408Cys	RHD*1224C	
Type 23	RHD*01W.23 RHD*weak D type 23	c.634G>T	4	p.Gly212Cys	RHD*634T	
Type 24	RHD*01W.24 RHD*weak D type 24	c.1013T>C	7	p.Leu338Pro	RHD*1013C	
Type 25	RHD*01W.25 RHD*weak D type 25	c.341G>A	3	p.Arg114Gln	RHD*341A	
Type 26	RHD*01W.26 RHD*weak D type 26	c.26T>A	1	p.Val9Asp	RHD*26A	
Type 27	RHD*01W.27 RHD*weak D type 27	c.661C>T	5	p.Pro221Ser	RHD*661T	
Type 28	RHD*01W.28 RHD*weak D type 28	c.1152A>C	8	p.Thr384Thr	RHD*1152C	Splice site change only
Type 29	RHD*01W.29 RHD*weak D type 29	c.178A>C; c.201G>A; c.203G>A; c.594A>T; c.667T>G; c.744C>T; c.957G>A; c.1025T>C	2, 4, 5, 7	p.Ile60Leu; silent; p.Ser68Asn; p.Lys198Asn; p.Phe223Val; silent; silent; p.Ile342Thr	RHD*178C, 201A, 203A, 594T, 667G, 744T, 957A, 1025C	
Type 30	RHD*01W.30 RHD*weak D type 30	c.1018_1019 delinsAT	7	p.Glu340Met	RHD*1018_1019 delinsAT	
Type 31	RHD*01W.31 RHD*weak D type 31	c.17C>T	1	p.Pro6Leu	RHD*17T	
Type 32	RHD*01W.32 RHD*weak D type 32	c.1121T>A	8	p.Ile374Asn	RHD*1121A	
Type 33	RHD*01W.33 RHD*weak D type 33	c.520G>A	4	p.Val174Met	RHD*520A	
Type 34	RHD*01W.34 RHD*weak D type 34	c.809T>A	6	p.Val270Glu	RHD*809A	
Type 35	RHD*01W.35 RHD*weak D type 35	c.260G>A	2	p.Gly87Asp	RHD*260A	
Type 36	RHD*01W.36 RHD*weak D type 36	c.842T>G	6	p.Val281Gly	RHD*842G	
Type 37	RHD*01W.37 RHD*weak D type 37	c.399G>T	3	p.Lys133Asn	RHD*399T	
Type 38	RHD*01W.38 RHD*weak D type 38	c.833G>A	6	p.Gly278Asp	RHD*833A	
Type 39	RHD*01W.39 RHD*weak D type 39	c.1015G>A	7	p.Gly339Arg	RHD*1015A	
Type 40	RHD*01W.40 RHD*weak D type 40	c.602C>G	4	p.Thr201Arg	RHD*602G	
Type 41	RHD*01W.41 RHD*weak D type 41	c.1193A>T	9	p.Glu398Val	RHD*1193T	

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Phenotype	Allele name	Nucleotide Change(s)	Exon	AminoAcid change(s)	Allele Name Detail	Comments
Type 41.0.1	RHD*01W.41.0.1 RHD*weak D type 41.0.1	c.1170T>C; c.1193A>T	9	p.Leu390Leu; p.Glu398Val	<i>RHD*1170C,</i> <i>1193T</i>	
Type 42	RHD*01W.42 RHD*weak D type 42	c.1226A>T	9	p.Lys409Met	<i>RHD*1226T</i>	
Type 43	RHD*01W.43 RHD*weak D type 43	c.605 C > T	4	p.Ala202Val	<i>RHD*605T</i>	
Type 44	RHD*01W.44 RHD*weak D type 44	c.728A>G	5	p.Tyr243Cys	<i>RHD*728G</i>	
Type 45	RHD*01W.45 RHD*weak D type 45	c.1195G>A	9	p.Ala399Thr	<i>RHD*1195A</i>	
Type45.1	RHD*01W.45.1 RHD*weak D type 45.1	c.818C>T; c.1195G>A	6, 9	p.Ala273Val; p.Ala399Thr	<i>RHD*818T,</i> <i>1195A</i>	
Type45.2	RHD*01W.45.2 RHD*weak D type 45.2	c.208C>T; c.818C>T; c.1195G>A	2,6,9	p.Arg70Trp; p.Ala273Val; p.Ala399Thr	<i>RHD*208T,</i> <i>818T,1195A</i>	
Type 46	RHD*01W.46 RHD*weak D type 46	c.1221C>A	9	p.Phe407Leu	<i>RHD*1221A</i>	
Type 47	RHD*01W.47 RHD*weak D type 47	c.340C>G	3	p.Arg114Gly	<i>RHD*340G</i>	
Type 48	RHD*01W.48 RHD*weak D type 48	c.182G>T	2	p.Gly61Val	<i>RHD*182T</i>	
Type 49	RHD*01W.49 RHD*weak D type 49	c.770C>T	5	p.Ser257Phe	<i>RHD*770T</i>	
Type 50	RHD*01W.50 RHD*weak D type 50	c.727T>A	5	p.Tyr243Asn	<i>RHD*727A</i>	
Type 51	RHD*01W.51 RHD*weak D type 51	c.594A>T; c.602C>G	4	p.Lys198Asn; p.Thr201Arg	<i>RHD*594T,</i> <i>602G</i>	
Type 52	RHD*01W.52 RHD*weak D type 52	c.92T>C	1	p.Phe31Ser	<i>RHD*92C</i>	
Type 53	RHD*01W.53 RHD*weak D type 53	c.740T>G	5	p.Val247Gly	<i>RHD*740G</i>	
Type 54	RHD*01W.54 RHD*weak D type 54	c.365C>T	3	p.Ser122Leu	<i>RHD*365T</i>	
Type 55	RHD*01W.55 RHD*weak D type 55	c.895C>G	6	p.Leu299Val	<i>RHD*895G</i>	
Type 56	RHD*01W.56 RHD*weak D type 56	c.65C>A	1	p.Ala22Glu	<i>RHD*65A</i>	
Type 57	RHD*01W.57 RHD*weak D type 57	c.640C>T	5	p.Leu214Phe	<i>RHD*640T</i>	
Type 58	RHD*01W.58 RHD*weak D type 58	c.1006G>C	7	p.Gly336Arg	<i>RHD*1006C</i>	
Type 59	RHD*01W.59 RHD*weak D type 59	c.1148T>C	8	p.Leu383Pro	<i>RHD*1148C</i>	
Type 60	RHD*01W.60 RHD*weak D type 60	c.1219_1224 delTTCTGG	9	p.Phe407_Trp4 08del	<i>RHD*</i> <i>1219_1224 del</i>	
Type 61	RHD*01W.61 RHD*weak D type 61	c.28C>T	1	p.Arg10Trp	<i>RHD*28T</i>	
Type 62	RHD*01W.62 RHD*weak D type 62	c.661C>A	5	p.Pro221Thr	<i>RHD*661A</i>	
Type 63	RHD*01W.63 RHD*weak D type 63	c.758T>A	5	p.Ile253Asn	<i>RHD*758A</i>	
Type 64	RHD*01W.64 RHD*weak D type 64	c.881C>T	6	p.Ala294Val	<i>RHD*881T</i>	
Type 65	RHD*01W.65 RHD*weak D type 65	c.68C>A	1	p.Ala23Asp	<i>RHD*68A</i>	

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Type 66	RHD*01W.66 RHD*weak D type 66	c.916G>A	6	p.Val306Ile	RHD*916A	
Type 67	RHD*01W.67 RHD*weak D type 67	c.722C>T	5	p.Thr241Ile	RHD*722T	
Type 68	RHD*01W.68 RHD*weak D type 68	c.165C>T; c.1213C>G	2, 9	silent; p.Gln405Glu	RHD*165T, 1213G	
Type 69	RHD*01W.69 RHD*weak D type 69	c.953G>A	7	p.Arg318Gln	RHD*953A	
Type 70	RHD*01W.70 RHD*weak D type 70	c.1012C>G	7	p.Leu338Val	RHD*1012G	
Type 71	RHD*01W.71 RHD*weak D type 71	c.29G>C	1	p.Arg10Pro	RHD*29C	
Type 72	RHD*01W.72 RHD*weak D type 72	c.1212C>A	9	p.Asp404Glu	RHD*1212A	
Type 73	RHD* 01W.73 RHD*weak D type 73	c.1241C>T	10	p.Ala414Val	RHD*1241T	
Type 74	RHD* 01W.74 RHD*weak D type 74	c.203G>C	2	p.Ser68Thr	RHD*203C	
Type 75	RHD* 01W.75 RHD*weak D type 75	c.1194G>C	9	p.Glu398Asp	RHD*1194C	
Type 76	RHD* 01W.76 RHD*weak D type 76	c.1215A>C	9	p.Gln405His	RHD*1215C	
Type 77	RHD* 01W.77 RHD*weak D type 77	c.766T>C	5	p.Ser256Pro	RHD*766C	
Type 78	RHD* 01W.78 RHD*weak D type 78	c.1228T>G	10	p.Phe410Val	RHD*1228G	
Type 79	RHD* 01W.79 RHD*weak D type 79	c.560T>C	4	p.Leu187Pro	RHD*560C	
Type 80	RHD* 01W.80 RHD*weak D type 80	c.539G>A	4	p.Gly180Glu	RHD*539A	
Type 81	RHD* 01W.81 RHD*weak D type 81	c.1199A>C	9	p.Lys400Thr	RHD*1199C	
Type 82	RHD* 01W.82 RHD*weak D type 82	c.1184C>T	9	p.Ala395Val	RHD*1184T	
Type 83	RHD* 01W.83 RHD*weak D type 83	c.1238T>G	10	p.Leu413Trp	RHD*1238G	
Type 84	RHD* 01W.84 RHD*weak D type 84	c.227G>A	2	p.Ser76Asn	RHD*227A	
Type 85	RHD* 01W.85 RHD*weak D type 85	c.209G>A	2	p.Arg70Gln	RHD*209A	
Type 86	RHD* 01W.86 RHD*weak D type 86	c.1034T>A	7	p.Val345Glu	RHD*1034A	
Type 87	RHD* 01W.87 RHD*weak D type 87	c.374T>A	3	p.Ile125Asn	RHD*374A	
Type 88	RHD* 01W.88 RHD*weak D type 88	c.182G>C	2	p.Gly61Ala	RHD*182C	
Type 89	RHD* 01W.89 RHD*weak D type 89	c.67G>C	1	p.Ala23Pro	RHD*67C	
Type 90	RHD* 01W.90 RHD*weak D type 90	c.993C>G	7	p.Asn331Lys	RHD*993G	
Type 91	RHD* 01W.91 RHD*weak D type 91	c.1187C>G	9	p.Pro396Arg	RHD*1187G	

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Type 92	RHD* 01W.92 RHD*weak D type 92	c.1145T>C	8	p.Leu382Pro	<i>RHD*1145C</i>	
Type 93	RHD* 01W.93 RHD*weak D type 93	c.359C>A	3	p.Ala120Asp	<i>RHD*359A</i>	
Type 94	RHD* 01W.94 RHD*weak D type 94	c.884T>C	6	p.Met295Thr	<i>RHD*884C</i>	
Type 95	RHD* 01W.95 RHD*weak D type 95	c.730G>C	5	p.Ala244Pro	<i>RHD*730C</i>	
Type 96	RHD* 01W.96 RHD*weak D type 96	c.731C>T	5	p.Ala244Val	<i>RHD*731T</i>	
Type 97	RHD* 01W.97 RHD*weak D type 97	c.542T>C	4	p.Leu181Pro	<i>RHD*542C</i>	
Type 98	RHD* 01W.98 RHD*weak D type 98	c.751A>C	5	p.Thr251Pro	<i>RHD*751C</i>	
Type 99	RHD* 01W.99 RHD*weak D type 99	c.1107A>C	8	p.Glu369Asp	<i>RHD*1107C</i>	
Type 100	RHD* 01W.100 RHD*weak D type 100	c.787G>A	5	p.Glu263Arg	<i>RHD*787A</i>	
Type 101	RHD* 01W.101 RHD*weak D type 101	c.62A>C	1	p.Glu21Ala	<i>RHD*62C</i>	
Type 102	RHD* 01W.102 RHD*weak D type 102	c.73A>T	1	p.Ile25Phe	<i>RHD*73T</i>	
Type 103	RHD* 01W.103 RHD*weak D type 103	c.91T>A	1	p.Phe31Ile	<i>RHD*91A</i>	
Type 104	RHD* 01W.104 RHD*weak D type 104	c.157G>T	2	p.Asp53Tyr	<i>RHD*157T</i>	
Type 105	RHD* 01W.105 RHD*weak D type 105	c.200C>G	2	p.Ser67Trp	<i>RHD*200G</i>	
Type 106	RHD* 01W.106 RHD*weak D type 106	c.220T>G	2	p.Trp74Gly	<i>RHD*220G</i>	
Type 107	RHD* 01W.107 RHD*weak D type 107	c.223A>T	2	p.Ser75Cys	<i>RHD*223G</i>	
Type 108	RHD* 01W.108 RHD*weak D type 108	c.287G>A	2	p.Gly96Asp	<i>RHD*287A</i>	
Type 109	RHD* 01W.109 RHD*weak D type 109	c. 376T>C	3	p.Ser126Pro	<i>RHD*376C</i>	
Type 110	RHD* 01W.110 RHD*weak D type 110	c.413A>G	3	p.Gln138Arg	<i>RHD*413G</i>	
Type 111	RHD* 01W.111 RHD*weak D type 111	c.634G>A	4	p.Gly212Ser	<i>RHD*634A</i>	
Type 112	RHD* 01W.112 RHD*weak D type 112	c.635G>A	5	p.Gly212Asp	<i>RHD*635A</i>	
Type 113	RHD* 01W.113 RHD*weak D type 113	c.874T>C	6	p.Trp292Arg	<i>RHD*874C</i>	
Type 114	RHD* 01W.114 RHD*weak D type 114	c.968C>T	7	p.Pro323Leu	<i>RHD*968T</i>	
Type 115	RHD* 01W.115 RHD*weak D type 115	c.983T>A	7	p.Met328Lys	<i>RHD*983A</i>	
Type 116	RHD* 01W.116 RHD*weak D type 116	c.346G>C	3	p.Ala116Pro	<i>RHD*346C</i>	

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Type 117	<i>RHD* 01W.117</i> <i>RHD*weak D type 117</i>	c.346G>A	3	p.Ala116Thr	<i>RHD*346A</i>	
Type 118	<i>RHD* 01W.118</i> <i>RHD*weak D type 118</i>	c.347C>T	3	p.Ala116Val	<i>RHD*347T</i>	
Type 119	<i>RHD* 01W.119</i> <i>RHD*weak D type 119</i>	c.818C>T	6	p.Ala273Val	<i>RHD*818T</i>	
Type 120	<i>RHD* 01W.120</i> <i>RHD*weak D type 120</i>	c.818C>A	6	p.Ala273Glu	<i>RHD*818A</i>	
Type 121	<i>RHD* 01W.121</i> <i>RHD*weak D type 121</i>	c.176C>A	2	p.Ala59Asp	<i>RHD*176A</i>	
Type 122	<i>RHD* 01W.122</i> <i>RHD*weak D type 122</i>	c.208C>T	2	p.Arg70Trp	<i>RHD*208T</i>	
Type 123	<i>RHD* 01W.123</i> <i>RHD*weak D type 123</i>	c.379 G>T	3	p.Val127Leu	<i>RHD*379T</i>	
Type 124	<i>RHD* 01W.124</i> <i>RHD*weak D type 124</i>	c.594A>T	4	p.Lys198Asn	<i>RHD*594T</i>	
Type 125	<i>RHD* 01W.125</i> <i>RHD*weak D type 125</i>	c.671A>G	5	p.Asn224Ser	<i>RHD*671G</i>	
Type 126	<i>RHD* 01W.126</i> <i>RHD*weak D type 126</i>	c.1199A>T	9	p.Lys400Ile	<i>RHD*1199T</i>	
Type 127	<i>RHD* 01W.127</i> <i>RHD*weak D type 127</i>	c.1200A>T	9	p.Lys400Asn	<i>RHD*1200T</i>	
Type 128	<i>RHD* 01W.128</i> <i>RHD*weak D type 128</i>	c.1207G>T	9	p.Asp403Tyr	<i>RHD*1207T</i>	
Type 129	<i>RHD* 01W.129</i> <i>RHD*weak D type 129</i>	c.1208A>T	9	p.Asp403Val	<i>RHD*1208T</i>	
Type 130	<i>RHD* 01W.130</i> <i>RHD*weak D type 130</i>	c.163A>C	2	p.Thr55Pro	<i>RHD*163A</i>	
Type 131	<i>RHD* 01W.131</i> <i>RHD*weak D type 131</i>	c.254C>G	2	p.Ala85Gly	<i>RHD*254G</i>	
Type 132	<i>RHD* 01W.132</i> <i>RHD*weak D type 132</i>	c.394G>A	3	p.Gly132Arg	<i>RHD*394A</i>	
Type 133	<i>RHD* 01W.133</i> <i>RHD*weak D type 133</i>	c.395G>A	3	p.Gly132Glu	<i>RHD*395A</i>	
Type 134	<i>RHD* 01W.134</i> <i>RHD*weak D type 134</i>	c.1168C>G	9	p.Leu390Val	<i>RHD*1168G</i>	
Type 135	<i>RHD* 01W.135</i> <i>RHD*weak D type 135</i>	c.884T>A	6	p.Met295Lys	<i>RHD*884A</i>	
Type 136	<i>RHD* 01W.136</i> <i>RHD*weak D type 136</i>	c.41C>T	1	p.Pro14Leu	<i>RHD*41T</i>	
Type 137	<i>RHD* 01W.137</i> <i>RHD*weak D type 137</i>	c.780C>A	5	p.His260Gln	<i>RHD*780A</i>	
Type 138	<i>RHD* 01W.138</i> <i>RHD*weak D type 138</i>	c.871C>T	6	p.Pro291Ser	<i>RHD*871T</i>	
Type 139	<i>RHD* 01W.139</i> <i>RHD*weak D type 139</i>	c.1169T>C	9	p.Leu390Pro	<i>RHD*1169C</i>	
Type 140	<i>RHD* 01W.140</i> <i>RHD*weak D type 140</i>	c.1229T>C	10	p.Phe410Ser	<i>RHD*1229C</i>	
Type 141	<i>RHD* 01W.141</i> <i>RHD*weak D type 141</i>	c.668T>C	5	p.Phe223Ser	<i>RHD*668C</i>	

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Type 142	RHD* 01W.142 RHD*weak D type 142	c.67G>T	1	p.Ala23Ser	RHD*67T	
Type 143	RHD* 01W.143 RHD*weak D type 143	c.173C>T	2	p.Ala58Val	RHD*173T	
Type 144	RHD* 01W.144 RHD*weak D type 144	c.579G>C	4	p.Glu193Asp	RHD*579C	
Type 145	RHD* 01W.145 RHD*weak D type 145	c.41 C>G	1	p. Pro14Arg	RHD*41G	
Del defined as weak D expression primarily detectable only by adsorption and elution						
Del	RHD*01EL.01 RHD*DEL1	c.1227G>A	9	p.Lys409Lys	RHD*1227A	Splice site affected
Del	RHD*01EL.02 RHD*DEL2	c.3G>A	1	p.Met1Ile	RHD*3A	
Del	RHD*01EL.03 RHD*DEL3	c.53T>C	1	p.Leu18Pro	RHD*53C	
Del	RHD*01EL.04 RHD*DEL4	c.147delA	1	p.Val50Leufs*5	RHD*147delA	
Del	RHD*01EL.05 RHD*DEL5	c.148+1G>A	Intron 1	Splice site mutation	RHD*148+1A	
Del or weak D	RHD*01EL.06 RHD*DEL6	c.251T>C	2	p.Leu84Pro	RHD*251C	
Del or weak D	RHD*01EL.07 RHD*DEL7	c.410C>A	3	p.Ala137Glu	RHD*410A	
Del	RHD*01EL.08 RHD*DEL8	c.486+1G>A	Intron 3	Splice site mutation	RHD*486+1A	
Del or D negative	RHD*01EL.09 RHD*DEL9	c.486+2T>A	Intron 3	Splice site mutation	RHD*486+2A	
Del	RHD*01EL.10 RHD*DEL10	c.1222T>C	9	p.Trp408Arg	RHD*1222C	
Del	RHD*01EL.11 RHD*DEL11	c.1252_1253 insT	10	p.*418Leuext*70	RHD*1252_1253insT	
Del	RHD*01EL.12 RHD*DEL12	c.458T>C	3	p.Leu153Pro	RHD*458C	
Del or D negative	RHD*01EL.13 RHD*DEL13	c.785delA	5	p.Lys264Argfs*24	RHD*785delA	
Del	RHD*01EL.14 RHD*DEL14	c.634+5G>T	Intron 4	Splice site mutation	RHD*634+5T	G>A associated with weak D
Del or D negative	RHD*01EL.15 RHD*DEL15	c.922G>T	6	p.Gly308Ter	RHD*922T	
Del	RHD*01EL.16 RHD*DEL16	c.634G>C	4	p.Gly212Arg	RHD*634C	212Cys reported as weak D; 212Val as D neg
Del	RHD*01EL.17 RHD*DEL17	c.1203T>A	9	p.Tyr401*	RHD*1203A	
Del	RHD*01EL.18 RHD*DEL18	c.93_94insT	1	p.Thr32Tyrf*4	RHD*93_94insT	
Del	RHD*01EL.19 RHD*DEL19	c.635-2A>G	Intron 4	Splice site mutation	RHD*635-2G	
Del	RHD*01EL.20 RHD*DEL20	c.1154-8T>A	Intron 8	Splice site mutation	RHD*1154-8A	

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Phenotype	Allele name	Nucleotide Change(s)	Exon	AminoAcid change(s)	Allele Name Detail	Comments
Del	RHD*01EL.21 RHD*DEL21	c.148+5G>C	Intron 1	Splice site mutation	<i>RHD*148+5C</i>	Hyland
Del	RHD*01EL.22 RHD*DEL22	c.336-2delA	Intron 2	Splice site mutation	<i>RHD*336-2delA</i>	Hyland
Del Partial D	RHD*01EL.23 RHD*DEL23	RHD-CE(5-7)-D	5 6 7	Hybrid allele	<i>RHD*-CE(5-7)-D</i>	DBU
Del	RHD*01EL.24 RHD*DEL24	c.838G>A	6	p.Ala280Thr	<i>RHD*838A</i>	
Del	RHD*01EL.25 RHD*DEL25	c.1252T>A	10	p.Ter418Lysext*?	<i>RHD*1252A</i>	
Del	RHD*01EL.26 RHD*DEL26	c.1248_1249 insG	10	p.Phe417Valfs*?	<i>RHD*1248_1249insG</i>	
Del	RHD*01EL.28 RHD*DEL28	c.993delC	7	p.Phe332Serfs*27	<i>RHD*993delC</i>	
Del	RHD*01EL.29 RHD*DEL29	c.1210G>C	9	p.Asp404His	<i>RHD*1210C</i>	
Del	RHD*01EL.30 RHD*DEL30	c.1074-100_1153+?del	Intron 7 8 Intron 8	Large Deletion	<i>RHD* Ex8del</i>	
Del	RHD*01EL.31 RHD*DEL31	c.148+1G>T	1	Splice site mutation	<i>RHD*148+1T</i>	
Del	RHD*01EL.32 RHD*DEL32	c.149 -29G>C	Intron 1	Intron polymorphism	<i>RHD*149-29C</i>	
Del	RHD*01EL.33 RHD*DEL33	c.336-2A>G	2	Splice site mutation	<i>RHD*336-2G</i>	
Del	RHD*01EL.35 RHD*DEL35	c.802-38_35del	5	Intron polymorphism	<i>RHD*802-38_35del</i>	frequently observed in normal D phenotypes-obsolete
Del	RHD*01EL.36 RHD*DEL36	c.1227G>A c.1073+152C>A	9 Intron 7	Splice site mutation	<i>RHD*(1227A, 1073+152A)</i>	
Del	RHD*01EL.37 RHD*DEL37	c.1154-31C>T	8	Intron polymorphism	<i>RHD*1154-31T</i>	
Del	RHD*01EL.38 RHD*DEL38	c.1010T>G	7	p.Leu337Arg	<i>RHD*1010G</i>	
Del	RHD*01EL.39 RHD*DEL39	c.113T>A	1	p.Leu38*	<i>RHD*113A</i>	
Del	RHD*01EL.40 RHD*DEL40	c.278T>G	2	p.Leu93Arg	<i>RHD*278G</i>	
Del	RHD*01EL.41 RHD*DEL41	c.872C>G	6	p.Pro291Arg	<i>RHD*872G</i>	
Del	RHD*01EL.42 RHD*DEL42	c.335G>C; c.149-29G>C	2 Intron 1	p.Ser112Thr	<i>RHD*(335G>C 149-29C)</i>	
Del	RHD*01EL.43 RHD*DEL43	c.46T>C	1	p.Trp16Arg	<i>RHD*46C</i>	
Del	RHD*01EL.44 RHD*DEL44	RHD-CE(4-9)-D	4 - 9	Hybrid allele	<i>RHD*-CE(4-9)-D</i>	
Del	RHD*01EL.45 RHD*DEL45	c.721A>C	5	p.Thr241Pro	<i>RHD*721C</i>	
Del	RHD*01EL.46 RHD*DEL46	c.884T>C	6	p.Met295Thr	<i>RHD*884C</i>	