

Label name	Allele	Label name	Allele	Label name	Allele
D1	IGHD4-KMEY*01_i0ggaggccgaagcaggcggattacgaggtcaggagatca_t1a_t5c_g8c_g9c_a11g_16acacggtgaaa26	D42	IGHD4-KMEY*01_i0tacaggaaatggtca_g2t_g8a_t10a_i11g_17tcatttctttg27	D83	IGHD4-KMEY*01_g2t_t5a_g8a_t10a_a11t_g12t_16agcttatt23
D2	IGHD11-PSVV*01_i0agagattgtaaaatcga_c7a_g11t_a12t_a15t_t17a18c19t22c_c31g_a32c_c33t_35ccttcattaatta47	D43	IGHD7-BAAI*01_i0ataatctgcct_g2a_t3c_t5c_t8a_g10t_g11c_c17t_a18t_21ggttttaataac32	D84	IGHD4-KMEY*01_g2t_t5a_g8a_t10a_a11t_g12t_16agcttgtt23
D3	IGHD1-RIPD*01_i0attatcatactcagctgctgctccgatatggactgagta_g1t_t3g_c8t_g10t_g11a_17gcct20	D44	IGHD12-7HR7*02_i0ctccttattctctt_g1t_a3g_c4t_g7t_11ctgg14_a18g_a21g_23tgta26	D85	IGHD6-64ZP*03_i0c_g1a_g3a_t4c_a5g_a7g_g8c_c12g_c15g_18gtgattgtgc27
D4	IGHD2-QKRU*04_i0aaggacaaaccacag_c3a_t5g_8ccgc11_t13a_g17g18c28a_32tgctcctccagagc45	D45	IGHD1-2J4B*01_g1t_g2t_t5a_c8t_t9c_g10a_a13t_c14g_t15c_18tctttttactgcttggaagg37	D86	IGHD1-2J4B*02_i0agtag_g1a_g7t_a12c_a13c_a16c_18tcca21
D5	IGHD2-QKRU*04_i0aaggacgaaccac_c3a_a4g_t5a_7gatcc11_t13c_g15a_t16g_g18c_c28a_32tgctcctccagagc45	D46	IGHD12-7HR7*01_t2c_t5g6a_g9a_t10a_a15t_a18t_t19g_23tctccacattattggg38	D87	IGHD1-RIPD*03_i0gagtgg_g1t_t3g_a4t_a6t_g7c_g11c_a12c_c14a_18gct20
D6	IGHD2-QKRU*04_i0aaggacgaaccacag_c3a_t5g_8ccgc11_t13a_g17g18c28a_32tgctcctccagagc45	D47	IGHD4-ZLQB*01_i0caattcttgccta_g2t_c7t_c8t_t10a_c13t_16gagatagggtcttactctttca37	D88	IGHD4-KMEY*01_i0at_t1a_g2t_a3g_t5a_a11t_c13a_t14g_17atga20
D7	IGHD2-QKRU*04_i0aaggatgaaccacag_c3a_t5g_8ccgc11_t13a_g17g18c28a_32tgctcctccagagc45	D48	IGHD4-74CP*02_i0tctgaagtctcattat_t1a_g2a_12ttagtgatttttttc26	D89	IGHD1-RIPD*04_i0tt_g1t_a4c_a6c_c8g_g11c_a12c_c14g_a16g_18t18
D8	IGHD5-X76R*01_i0gagcagtgaactgga_t2c_g3c_g4c_t6g_a9t_g12a_t15g_t20a_t21g_24cagccgctgacatcccgagc43	D49	IGHD1-GRMY*01_i0cactgtgg_t3g_a6g_g7a_t9a_g10a_a13t_c14g_18gtaaacctcctctcactaatta39	D90	IGHD5-75EJ*01_i0gag_a7c_a9g_g10a_c11a_a13g_g15t_g16t_19cag21
D9	IGHD5-X76R*01_i0gagctgtgaactgga_t2c_g3c_g4c_t6g_a9t_g12a_t15g_t20a_t21g_24cagccgctgacatcccgagc43	D50	IGHD12-7HR7*01_i0cag_c4a_6ttttgt11_t19g_g20t_23agaagtggttt33	D91	IGHD6-64ZP*01_i0gaggt_a5c_7gaat10_g14t_g15t_18ag19
D10	IGHD3-72Z4*02_i0gtggctttttc_g1a_t2a_a6c_t8c_a9g_g11t_g17a_t19t22a_29gggcatgtgagcaga43	D51	IGHD3-VBVC*01_i0gtgaga_g1c_t5a_7agga10_t13g_g15c_t16a_a17t_28att30	D92	IGHD4-AWN2*02_i0accacagtg_t1g_g2t_a3g_t5c_g8c_g9a_t17a_20caggc24
D11	IGHD3-72Z4*01_i0gtggctttttcaaattcccgtt_t4g_c7g_t10a_g11t_g15c_t19g_t20c_t23g_a24t_c25g_c27g_29ag30	D52	IGHD4-KMEY*01_i0tacaggaaatggtca_g2t_g8a_t10a_i11g_17tcatttttttg27	D93	IGHD1-2J4B*02_i0gct_g2c_a4c_g7c_c8a_a12g_a13g_a16g_18tct20
D12	IGHD3-72Z4*02_i0gtggcttttgc_g1a_t2a_a6c_t8c_a9c_g11t_g17a_t19t22a_29gggcatgtgagcag42	D53	IGHD1-RIPD*04_i0acttttattatttacagg_g1c_g2t_t3a_a4t_a7t_g10t_a12t_c14t	D94	IGHD7-BAAI*01_2aagc5_g11t_14gacg17_20aatt23
D13	IGHD2-QKRU*04_i0aaggacgaaccacag_c3a_t5g_8ccgc11_t13a_g17g18c28a_32tgctcc37	D54	IGHD5-75EJ*02_i0atgtaaaattctta_g3t_g4a_a5t_a9t_g10a_c11t_c14t_20ga21	D95	IGHD6-UTCO*01_i0gct_g2c_g3t_a5t_a7t_g8t_a10c_g11a_a14c_16ccct19
D14	IGHD1-RIPD*01_i0gacgcaccca_a4t_a6g_a7c_g11a_a13c_g15c_18tgtgactattaca30	D55	IGHD6-DWON*01_i0gcaccaga_g1c_g2c_g3c_a5g_a7c_g8c_g11a_t19c_22ggttcc27	D96	IGHD1-2J4B*01_i0cttgc_g1t_g2a_t9a_a13g_c14a_t15c_18gc19
D15	IGHD6-64ZP*01_i0gcttcacattcaagctgtctccagca_t4a_t6g_c9g15c_19tct21	D56	IGHD1-RIPD*01_i0tgtagtagtga_a4c_t5a_a7t_g11a_a12g_a13c_18agaagt23	D97	IGHD1-GRMY*01_i0gtgg_g1c_a2c_t5g_c8g_g10c_g11t_a12t_c14g_a16t
D16	IGHD2-QKRU*04_i0aaggacgaaccacag_c3a_t5g_8ccgc11_t13a_g17g18c28a_32tgctcctc39	D57	IGHD5-75EJ*03_i0tctcca_g1c_a7c_a9t_c11a_t12a_c14t_t18g_20gagaag25	D98	IGHD1-RIPD*04_g1t_a4c_a6c_c8g_g11c_a12c_c14g_a16g_18t18
D17	IGHD6-64ZP*03_i0ttgctgaggctggaatgcagtggtatgatcata_g2c_g3t_t4c_t6c_a13c_g14t_t16a_19c19	D58	IGHD5-X76R*04_i0ccaggt_g1a_t6g_c8a_a16g_c17g_a18g_t20c_22gttcctcttcg32	D99	IGHD12-7HR7*02_g1c_t2a_a3g_c4t_g9c_a12g_t16c_a18t_t19a_22aga24
D18	IGHD6-64ZP*01_i0cttcatggatgtgg_g1a_g2c_t4a_g8t_c9t_a10t_g14t_g15c_19agatttagaaagt31	D59	IGHD6-64ZP*03_i0a_g1a_g2t_t4c_a5c_t6a_c9a_t16g_a17g_19cagttgggatccagtgtga37	D100	IGHD4-KMEY*01_g2c_a3t_a6t_g9t_a11t_14aggtg18
D19	IGHD9-GADR*01_i0tccctgaactttcattt_a3c_a4c_g6c_c8g_a10t_a12g_g16c_g20c_t21a_a23c_c24t_g27c_t28a	D60	IGHD9-GADR*01_t5g_c8a	D101	IGHD6-64ZP*01_g1c_g3t_a7t_g8c_a10c_g11c_g14t_17ttgct21
D20	IGHD6-T3KD*01_i0ctggtaccaaaac_g1a_g3a_t4g_g8c_c9a_g11a_a13c_g14a_c15a_22agaacagagc31	D61	IGHD1-GRMY*01_i0gta_g1a_a6t_c8g_t9a_a12c_c14t_17aatgcataggtgg29	D102	IGHD7-BAAI*01_g2t3a6t_g7a_a16c_c17g_21taa23
D21	IGHD3-72Z4*02_i0tttctataatcaggcttagatctta_t2g_a3g_1316_a21t_t22g_a24c_c25t_29a29	D62	IGHD12-7HR7*01_i0caat_a3t_g11a12a15t_t16a_a18g_t19g_a21c_23tcttttat30	D103	IGHD1-2J4B*01_i0aa_g1a_t3c_t5g_a6t_c8g_g10a_g11a_a12g_t15g_18aatt21
D22	IGHD4-KMEY*01_i0atgaagacgctgtggtgtgtctg_a3t_c4g_a6c_g9t_t10a_g12c_t14c_17agggatgaaga27	D63	IGHD12-7HR7*02_g1c_t2a_a3g_c4t_g9c_a12g_t16c_a18t_t19a_22agaaaatatgt32	D104	IGHD6-UTCO*01_i0cagacga_g1t_a5c_c9t_a10g_c12g_15gc16
D23	IGHD10-B4TS*01_i0aaaaagt_6caac9_11-caaca16_c18a_t20c_c28t	D64	IGHD4-74CP*02_i0atct_a4t_c7g_15ttggtattttccc27	D105	IGHD6-LDSS*01_25_a7t_g8t_g17t_t19c_22ctg24
D24	IGHD12-7HR7*01_t2c_t5a_g7a_g9a_g11a15t_a18t_t19g_23tctccacattattggg38	D65	IGHD4-74CP*02_i0cccggatgacacac_t1a_a3c_t5a_a11g_c13t_16tg17	D106	IGHD6-UTCO*01_g1a_g3a_t4g_c9g_a10c_g11t_14cttg17
D25	IGHD4-KMEY*01_i0tattcctttggacattttt_g2t_a3c_a6t_g8t_g12t_c13t_t14a_17gatattta24	D66	IGHD5-75EJ*01_i0tattttatca_g3a_a5t_t6a_a7c_a9t_c11t_t12g_g15t_20tg21	D107	IGHD4-KMEY*01_i0t_t1a_t5g_g9t10g12t_16gtggtagc23
D26	IGHD5-75EJ*02_i0a_g1a_g3t_g4t_a7t_10aagt13_t17a_a19g_21attctttttactgcttggaagg42	D67	IGHD7-BAAI*01_i0gc_g2t_a4c_6tcaa9_g11a_c14a_20tattaaaagc29	D108	IGHD1-2J4B*01_t3g_a4g_a6g_11aggg14_17gtt19
D27	IGHD3-NW5N*01_i0ctgac_g1c_a9g_g15g18c_21aaat24_t26g_a27t_31tgcaatc37	D68	IGHD1-RIPD*01_g2t_t3g_c8g_g11t_a13c_g15a_17atcttagaatttac30	D109	IGHD1-RIPD*01_t3t5g_a6g_a7t_g11t_a12t_a13c_17tgta20
D28	IGHD5-X76R*02_i0cagggcagtgtactagcaca_t6g_a7c_t11a_a16c_a18c_a22c23-	D69	IGHD7-BAAI*03_i0ccatgttattaa_t5a_g7t_t8g_g11a_21aa22	D110	IGHD4-74CP*02_t1g_a3g_t5g_a6c_t10a_a11c_a12c_a15g
D29	IGHD1-RIPD*01_i0gacgcaccca_a4t_a6g_a7t_g11a_a13c_g15c_18tgtgactattaca30	D70	IGHD4-74CP*02_i0ctgtgcaaatt_t1g_g2t_a3c_a11c_15ttcctcac22	D111	IGHD4-74CP*02_t1g_a3g_t5g_a6c_t10a_a11c_a12c_t14c_a15g
D30	IGHD7-BAAI*01_i0ggcaaggttcagaat_g2t_t8g_g9a_g10t_c14a_t15c_a16t_19gttggat25	D71	IGHD1-GRMY*02_i0cctgcagtttactg_8taatg12_18t18	D112	IGHD1-2J4B*01_g1a_g2c_t3a_t5g_c14t_t15a_a16t_18acac21
D31	IGHD5-75EJ*01_i0acagtcttgttcct_t2c_g3c_g4t_a7t_t8g_c11a_a13c_g15t_20tggact25	D72	IGHD4-KMEY*01_i0gtatttttc_g2c_a6t_g8t_g9t_g12c_c13t_15ttcct19	D113	IGHD4-KMEY*01_i0ccttac_g2c_a3t_g12t14c_c16a
D32	IGHD2-B3VX*01_i0cctgctgct_g2t_a4c_a6c_c7a_g12t13a_18tgact22_32ttgccttg39	D73	IGHD4-KMEY*01_i0tcttta_g2t_a3t_g9a_a11c_g12t_15catctcca22	D114	IGHD1-2J4B*02_i0acaataa_a13t_c14a_16gctc19
D33	IGHD3-VBVC*01_i0gcaatattatccttcaa_g1a_a3t_t8t10g_g12t_14caat17_c28t	D74	IGHD4-KMEY*01_i0ttctttttttctgatgcctt_8tact11_c13g	D115	IGHD1-GRMY*01_a2t3c8g_t9a_a12t_c14t_18agg20
D34	IGHD1-2J4B*02_i0gtgaaagtgag_g1c_g2t_t3g_a4t_c8a_16tccctctcactt27	D75	IGHD7-BAAI*03_i0gtgtca_t3g_a6t_g7c_g9a_a12g_a16c_c17t_20gtt22	D116	IGHD1-GRMY*01_a2t3c8g_t9a_g10t_a12t_c14t_18agg20
D35	IGHD1-GRMY*01_i0atctccatgtaa_g7a_10tact13_a15c_a16t_18cttgccttc26	D76	IGHD9-GADR*01_g11a_a19g	D117	IGHD4-74CP*02_2tgtggg7_a11c_16tat18
D36	IGHD1-GRMY*01_i0atctccatgtaa_g7a_10tact13_a15c_a16t_18cttgccttt26	D77	IGHD9-GADR*01_t28c	D118	IGHD12-7HR7*01_g1a_a3t_g6g9t_g11t_t16c_a18c_21tttgta26
D37	IGHD1-GRMY*01_i0atctccatgtaa_g7a_10tact13_a15c_a16t_18cttgctttc26	D78	IGHD9-GADR*01_t5g	D119	IGHD4-74CP*02_i0cagtat_g2a_t10g_1316
D38	IGHD4-KMEY*01_i0cgggtaccggtacttact_a3t_a6g8t_c13a_17ttttt21	D79	IGHD4-KMEY*01_i0tactctg_g2c_a3t_t5c_g8t_g9t_a11g_c13g_17acaattagaaaa28	D120	IGHD5-X76R*02_g4a
D39	IGHD4-KMEY*01_i0tgggtaccggtacttact_a3t_a6g8t_c13a_17ttttt21	D80	IGHD4-74CP*01_i0aaataagcaacatacag_t1a_a3t_c4t_c7t_g9t_c13a_c16t	D121	IGHD4-KMEY*01_t1a_a3t_c4a_a6t_t7a_t14a_a15g_c16g
D40	IGHD5-X76R*03_i0gattgtatgatag_g1t_g3t_a7t_g10t_t15g_a16c_c17g_t20g_t21g_a22c_24ac25	D81	IGHD4-74CP*02_i0gtattatgca_g2c_c7t_g9t_t10a_a12t_15taa17	D122	IGHD4-KMEY*01_t1a_g2c_a3t_c4g_a6t_t7a_t14a_a15g_c16g
D41	IGHD1-GRMY*02_i0atgcc_g1t_t3c_a6g_g11t_a13t_c14t_a16c_18aggagaccaaatctctgataa38	D82	IGHD1-RIPD*01_i0t_g2t_a4t_c8t_10tttg13_17gctttggg24		