



























Warning: IGHV4–31*02, IGHV4–31*03_04 have identical germline sequences. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV1-69*04_09_G112A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV1-69'08_C191T IGHV3-30'03_T288C IGHV3-30-3'02_G75C IGHV4-59'02_G88A IGHV5-51'07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-4*02_03_C300T IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning - no inferred sequences found. Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV1-69*08_C191T IGHV3-11*06_T300C IGHV3-30*03_T288C IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Warning – no inferred sequences found. Novel sequence(s) IGHV3-30*03_T288C IGHV3-30-3*01_T288C IGHV4-59*02_688A IGHV5-10-1*01_03_T258C IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV3-48*04_A193T_C198T_A200C_C201T_T210A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-33*01_C288T IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59*02_G88A IGHV5-51*07_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-33*01_T105C_A173T_T192G_C288T are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-30*04_T288C IGHV3-33*01_G75C IGHV4-30-2*03_T288C IGHV4-59*02_G88A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-11*06_T300C are not listed in the genotype and will be ignored.

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Novel sequence(s) IGHV3-30*03_T288C IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

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