

Report #2017-1-1226 (December 26, 2017)

IMGT Nomenclature Committee (IMGT-NC)

Sequences in FASTA sent by Cathrine Scheepers (December 15, 2017).

Final results from IMGT-NC expert analysis: December 26, 2017.

36 sequences *Homo sapiens* IGHV with accession numbers.

Found in 1, 2 or 3 individuals (total **47 sequences**), or found twice in the same individual.

Concern 11 different genes (not including the duplicated genes).

17 known alleles ('Lit').

8 new alleles (**1** IGHV1-8 (*03), **2** IGHV1-69 (*15, *16), **2** IGHV2-26 (*02, *03), **3** IGHV2-70 (*15, *16, *17) ('NEW').

2 sequences becoming reference sequence (MG719320 for IGHV1-45*03, MG719337 for IGHV2-70*04) ('Refseq').

| IMGT gene name | Submitted sequence header | GenBank /ENA/DDBJ accession number | IMGT-NC conclusions | | |
|---------------------------------|----------------------------------|------------------------------------|---------------------|---------------------------|---------------|
| | | | IMGT allele name | IMGT allele functionality | IMGT comments |
| <i>Homo sapiens</i> IGHV1-3 | IGHV1-3*01_CAP206_CAP88_CAP255 | MG719307 | IGHV1-3*01 | F | Lit |
| | IGHV1-3*02_CAP88 | MG719308 | IGHV1-3*02 | F | Lit |
| <i>Homo sapiens</i> IGHV1-8 | IGHV1-8*01_CAP177 | MG719309 | IGHV1-8*01 | F | Lit |
| | IGHV1-8*01_CAP225 | MG719310 | IGHV1-8*01 | F | Lit |
| | IGHV1-8*02_CAP256 | MG719311 | IGHV1-8*02 | F | Lit |
| | IGHV1-8*p04_CAP88 | MG719312 | IGHV1-8*03 | F | NEW |
| <i>Homo sapiens</i> IGHV1-24 | IGHV1-24*01_CAP206 | MG719313 | IGHV1-24*01 | F | Lit |
| | IGHV1-24*01_CAP206_CAP256 | MG719314 | IGHV1-24*01 | F | Lit |
| | IGHV1-24*01_CAP177 | MG719315 | IGHV1-24*01 | F | Lit |
| | IGHV1-24*01_CAP88 | MG719316 | IGHV1-24*01 | F | Lit |
| <i>Homo sapiens</i> IGHV1-45 | IGHV1-45*02_CAP177_CAP248_CAP225 | MG719317 | IGHV1-45*02 | F | Lit |
| | IGHV1-45*02_CAP88 | MG719318 | IGHV1-45*02 | F | Lit |
| | IGHV1-45*02_CAP88.2 | MG719319 | IGHV1-45*02 | F | Lit |

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|----------------------------------|----------------------------------|----------|--------------------|---|---------------|
| | IGHV1-45*03_CAP206 | MG719320 | IGHV1-45*03 | F | Refseq |
| <i>Homo sapiens</i> IGHV1-46 | IGHV1-46*01_CAP256_CAP248_CAP225 | MG719321 | IGHV1-46*01 | F | Lit |
| | IGHV1-46*03_CAP248 | MG719322 | IGHV1-46*03 | F | Lit |
| <i>Homo sapiens</i> IGHV1-58 | IGHV1-58*02_CAP256_CAP255 | MG719323 | IGHV1-58*02 | F | Lit |
| | IGHV1-58*02_CAP248 | MG719324 | IGHV1-58*02 | F | Lit |
| <i>Homo sapiens</i> IGHV1-69 | IGHV1-69*02_CAP88 | MG719325 | IGHV1-69*02 | F | Lit |
| | IGHV1-69*07/p36_CAP256 | MG719326 | IGHV1-69*15 | F | NEW |
| | IGHV1-69*12_CAP177 | MG719327 | IGHV1-69*12 | F | Lit |
| | IGHV1-69*p28_CAP206 | MG719328 | IGHV1-69*16 | F | NEW |
| <i>Homo sapiens</i> IGHV7-4-1 | IGHV7-4-1*02_CAP177 | MG719329 | IGHV7-4-1*02 | F | Lit |
| <i>Homo sapiens</i> IGHV2-5 | IGHV2-5*01_CAP177_CAP295 | MG719330 | IGHV2-5*01 | F | Lit |
| | IGHV2-5*02_CAP229_CAP292 | MG719331 | IGHV2-5*02 | F | Lit |
| | IGHV2-5*02_CAP248 | MG719332 | IGHV2-5*02 | F | Lit |
| <i>Homo sapiens</i> IGHV2-26 | IGHV2-26*01_CAP248 | MG719333 | IGHV2-26*01 | F | Lit |
| | IGHV2-26*01_CAP248.2 | MG719334 | IGHV2-26*01 | F | Lit |
| | IGHV2-26*p02_CAP295 | MG719335 | IGHV2-26*02 | F | NEW |
| | IGHV2-26*p07_CAP248 | MG719336 | IGHV2-26*03 | F | NEW |
| <i>Homo sapiens</i> IGHV2-70 | IGHV2-70*04_CAP292 | MG719337 | IGHV2-70*04 | F | Refseq |
| | IGHV2-70*p18_CAP295_CAP221 | MG719338 | IGHV2-70*15 | F | NEW |
| | IGHV2-70*p18_CAP221 | MG719339 | IGHV2-70*15 | F | Lit from new |
| | IGHV2-70*p20_CAP295 | MG719340 | IGHV2-70*16 | F | NEW |
| | IGHV2-70*p20_CAP295.2 | MG719341 | IGHV2-70*16 | F | Lit from new |
| | IGHV2-70*p22_CAP295 | MG719342 | IGHV2-70*17 | F | NEW |