

Names for JMH (ISBT 026) Blood Group Alleles

General description: The JMH blood group system consists of six antigens carried on a GPI-linked glycoprotein (CD108, Semaphorin, SEMA7A) that consists of 656 amino acids. It has a leader sequence of 44 amino acids and a GPI motif of 19 amino acids, both of which are cleaved from the membrane bound protein.

Gene name: *JMH*
 Number of exons: 14
 Initiation codon: Beginning of exon 1
 Stop codon: Within exon 14
 Entrez Gene ID: 8482
 LRG sequence: NG_011733.1 (genomic)
 NM_003612.3 (transcript)
 Reference allele: Preferred: *JMH*01* (shaded)
 Acceptable: *JMH* if inferred by haemagglutination

| Reference allele <i>JMH*01</i> encodes JMH1, JMH2, JMH3, JMH4, JMH5, JMH6 | | | | |
|---|-------------------|-------------------|------|-----------------------------|
| Phenotype | Allele name | Nucleotide change | Exon | Predicted amino acid change |
| JMH:1 or JMH+ | <i>JMH*01</i> | | | |
| JMH:-2 or JMHK- | <i>JMH*01.-02</i> | c.619C>T | 6 | p.Arg207Trp |
| JMH:-3 or JMHL- | <i>JMH*01.-03</i> | c.620G>A | 6 | p.Arg207Gln |
| JMH:-4 or JMHG- | <i>JMH*01.-04</i> | c.1379G>A | 11 | p.Arg460His |
| JMH:-5 or JMHM- | <i>JMH*01.-05</i> | c.1381C>T | 11 | p.Arg461Cys |
| JMH: -6 or JMHQ- | <i>JMH*01.-06</i> | c.1040G>T | 9 | p.Arg347Leu |