

Names for GIL (ISBT 029) Blood Group Alleles

General description: The GIL blood group system consists of one antigen carried on a multipass membrane glycoprotein aquaporin 3 (AQP3), an aquaglyceroporin. It consists of 292 amino acids and both amino and carboxyl termini are predicted to be intracellular.

Gene name: *GIL (AQP3)*
Number of exons: 6
Initiation codon: Within exon 1
Stop codon: Within exon 6
Entrez Gene ID: 360
LRG sequence: NG_007476.1 (genomic)
NM_004925.4 (transcript)
Reference allele: *GIL*01* (shaded)
Acceptable: *GIL*, if inferred by haemagglutination

Reference allele <i>GIL*01</i> encodes GIL1				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
GIL:1 or GIL+	<i>GIL*01</i>			
Null phenotype				
GIL:-1 or GIL-	<i>GIL*01N.01</i>	c.710+1G>A	Intron 5	Alternative splicing [1]

[1] Roudier N, et al. J Biol Chem, 2002;277(48):45854-9.