

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

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