Names for GIL (ISBT 029) Blood Group Alleles

DescriptionThe 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)*
6
initiation codon:Within exon 1
Stop codon:Within exon 6

Entrez Gene ID	360
LRG:	LRG_821
LRG sequence	NG_007476.1 (genomic)
	NM_004925.4 (transcript)
Reference allele	GIL*01 (shaded)
	Acceptable: GIL, if inferred by haemagglutination
Reference allele	GIL1
GIL*01 encodes:	
Antithetical antigens:	n.a.

Phenotype	Allele name	Nucleotide change	-	Predicted amino acid change	(Reference No.) PMID	Accession number	rs number
GIL:1 or GIL+	GIL*01						
GIL:-1 or GIL-	GIL*01N.01	c.710+1G>A	i5	Aberrant splicing	PMID: 12239222	AJ493597	rs1347380973
GIL:-1 or GIL-	GIL*01N.02	c.277_283dupCTGGCTC	3	p.Arg95ProfsTer4	(1), Abstract		

References

PMID	12239222	Roudier N, Ripoche P, Gane P et al. AQP3 deficiency in humans and the molecular basis of a novel blood group system, GIL. J Biol Chem 2002; 277(48), 45854-9
Abstract	(1)	Jones B, Karamatic Crew V, Lawrence C et al. Anti-GIL in an individual with a novel AQP3 inactivating mutation resulting in the rare GIL– phenotype; a serological and molecular case study with clinical outcome data, ISBT abstract 31 regional ISBT Congress, ISBT in Focus, 2021; https://doi.org/10.1111/vox.13117

Track of changes		ges	from	to
1	Version		v4.0 15th January 2020	v4.1 30-NOV-2021
2 3	Author Reviewer	created checked	Peter Ligthart, December 2019 Christoph Gassner, January 2020	Peter Ligthart, November 2021 Christoph Gassner, November 2021
4	Allele Table	added		new allel <i>GIL*01N.02</i> , no accession number and rs number known
5	5 End Version		v4.0 15th January 2020	v4.1 30-NOV-2021

Track of changes			from	to
1	Version		v3.0 160622	v4.0 15th January 2020
2	Author Reviewer	created checked	Peter Ligthart n.a.	Peter Ligthart, December 2019 Christoph Gassner, January 2020
5		Checked	11.0.	Christoph Gussher, Junuary 2020
4	General		n.a.	First Excel map version. Spread-sheets "Intro", "Allele Table", "References", and "Versioning" created.
5	Intro	LRG ID line added:	n.a.	LRG_813
6	Allele Table	Table column and header additions	n.a.	Table columns "(Reference No.) PMID", "Accession number" and "rs- number" created and content to table columns added.
7	Allele table & References		re-numberd the references	top to bottom

8 End Version

from v3.0 160622

to v4.0 15th January 2020