

Names for CD59 (ISBT 035) Blood Group Alleles

General description: The CD59 blood group system consists of 1 antigen carried on a 20 kDa glycosylphosphatidylinositol (GPI) linked glycoprotein (CD59). It consists of 128 amino acids and has a signal sequence of 25 amino acids. Another 26 amino acids are removed from the C-terminal end of mature protein which consists of 77 amino acids.

Gene name: *CD59*
 Gene label: *CD59* (for use in allele names)
 Number of exons: 6
 Initiation codon: Beginning of exon 4
 Stop codon: Within exon 6
 Entrez Gene ID: 966
 LRG sequence: NG_008057.1 (genomic)
 NM_203330.2 (transcript)
 NP_976075.1 (protein)
 Reference allele: *CD59*01* (shaded)

Reference allele <i>CD59*01</i> encodes CD59.1				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
CD59:+1 or CD59.1+	<i>CD59*01</i>			
Null phenotypes				
CD59:-1 or CD59.1-	<i>CD59*01N.01</i>	c.146delA	2	p.Asp49Valfs*31
CD59:-1 or CD59.1-	<i>CD59*01N.02</i>	c.123delC c.361delG	2 3	p.Val42Serfs*38 not applicable
CD59:-1 or CD59.1-	<i>CD59*01N.03</i>	c.266G>A	3	p.Cys89Tyr
CD59:-1 or CD59.1-	<i>CD59*02</i> †	c.146A>T	2	p.Asp49Val
CD59:+1 or CD59.1+	<i>CD59*03</i> †	c.238A>G	3	p.Arg80Gly

†Provisional number