

Names for RAPH (ISBT 025) Blood Group Alleles

General description: The Raph blood group system consists of one antigen (MER2) carried on a multipass membrane glycoprotein CD151 of the tetraspanin family. It consists of 253 amino acids and both amino and carboxyl termini are predicted to be intracellular. The null phenotype is associated with renal failure.

Gene name: *RAPH*
 Number of exons: 8
 Initiation codon: Within exon 2
 Stop codon: Within exon 8
 Entrez Gene ID: 977
 LRG sequence: NG_007478.1 (genomic)
 NM_004357.4 (transcript)
 Reference allele: *RAPH*01* (shaded)
 Acceptable: *MER2* if inferred by haemagglutination

Reference allele <i>RAPH*01</i> encodes RAPH1				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
RAPH:1 or MER2+	<i>RAPH*01</i>			
RAPH:-1 or MER2-	<i>RAPH*-01.01</i>	c.511C>T	6	p.Arg171Cys
RAPH:-1 or MER2-	<i>RAPH*-01.02</i>	c.533G>A	6	p.Arg178His
Null phenotype				
RAPH:-1 or MER2-	<i>RAPH*01N.01</i>	c.382_383insG	5	p.Asp128Glyfs*13