

Names for OK (ISBT 024) Blood Group Alleles

General description: The OK blood group system consists of 3 antigens carried on a single pass type I membrane glycoprotein with 2 IgSF domains called Basigin (aka CD147, neurothelin, EMMPRIN). It consists of 248 amino acids and has a leader sequence of 21 amino acids, which is cleaved from the membrane bound protein.

Gene name: *OK*
 Number of exons: 8
 Initiation codon: Beginning of exon 1
 Stop codon: End of exon 7
 Entrez Gene ID: 682
 LRG sequence: NG_007468.1 (genomic)
 NM_198589.2 (transcript)
 Reference allele: *OK*01* (shaded)
 Acceptable: *OK*A*, or *Ok^a* if inferred by haemagglutination

Reference allele <i>OK*01</i> encodes OK1, OK2 and OK3				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
OK:1 or Ok(a+)	<i>OK*01.01</i>			
OK:-1 or Ok(a-)	<i>OK*01.-01</i>	c.274G>A	4	p.Glu92Lys
OK:-2 or OKGV-	<i>OK*01.-02</i>	c.176G>T	2	p.Gly59Val [1]
OK:-3 or OKVM-	<i>OK*01.-03</i>	c.178G>A	2	p.Val60Met [2]

[1] Karamatic Crew V et al.. Transfusion Medicine 2003 ; 13 : 32 (suppl. 1)

[2] Karamatic Crew V et al. Transfusion Medicine 2006 ; 16 : 41 (suppl.1)