

## Names for SC (ISBT 013) Blood Group Alleles

General description: The Scianna blood group system consists of 7 antigens carried on a single pass type I membrane glycoprotein (ERMAP) with 1 IgSF domain and an intracellular B30.2 domain. It consists of 475 amino acids and has a leader sequence of 29 amino acids, which is cleaved from the membrane bound protein.

Gene name: *ERMAP*  
 Gene label: SC (for use in allele names)  
 Number of exons: 11  
 Initiation codon: Within exon 2  
 Stop codon: Beginning of exon 11  
 Entrez Gene ID: 114625  
 LRG sequence: NG\_008749.1 (genomic)  
 NM\_001017922.1 (transcript)  
 NP\_001017922.1 (protein)  
 Reference allele: *SC\*01* (shaded)

Reference allele <i>SC*01</i> encodes SC1, SC3, SC5, SC6, SC7				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
SC:1 or Sc1+	<i>SC*01</i>			
SC:2 or Sc2+	<i>SC*02</i>	c.169G>A	4	p.Gly57Arg
SC:4 or Rd+	<i>SC*01.04</i>	c.178C>G	4	p.Pro60Ala
SC:-5 or STAR-	<i>SC*01.-05</i>	c.139G>A	4	p.Glu47Lys
SC:-6 or SCER-	<i>SC*01.-06</i>	c.242G>A	4	p.Arg81Gln
SC:-7 or SCAN-	<i>SC*01.-07</i>	c.103G>A	4	p.Gly35Ser
Null phenotypes				
SC:-3 or SC:-1-2-3	<i>SC*01N.01</i>	c.307_308delGA	4	p.Asp103Cysfs*12
SC:-3 or SC:-1-2-3	<i>SC*01N.02</i>	c.994C>T	12	p.Arg332Ter