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