

## Product datasheet for MC200570

### S100a13 (BC005687) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S100a13 (BC005687) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	S100a13
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC005687

```
GCTTGCACCACCTCCCTGAGCCTAGCGGGAACAGCAGTAGCAGTCCCTCTAACACAGACTCCCAAGTAGC
CCTCATAATTGGGAGGGATGAGACCCTGTGGTCCTTCTGATCAGGCTGTGTCCCAGTCGCGTGGCGCTG
TGTTGGGATGGCTAGTGACAGCAGGGGCGGTCCCCTCAGCGGAGGCGGAACTTGACACTTCAGACTTGG
GAGTGGCTCTCGCCTTGCTGGTCTTATAAACTTCAGCCTCAGGGCTCCAGATCGGTTAGCTGCATCCC
ACCTTCTTTCCCGGTCAATCTGTGTGGACATCAGCTCCTGCTTTGGTATACTGATGGCAGCAGAGACTCT
GACTGAACTGGAGGCGGCCATTGAGACTGTGGTCTCTACTTTCTTACCTTTGCAGGGCGGGAAGGACGC
AAAGGCAGCCTGAACATCAATGAATTTAAGGAAGTGGCCACTCAGCAACTGCCTCATTTGCTCAAGGACG
TGGGCTCTCTAGATGAAAAGATGAAGACCTTGGATGTGAATCAGGACTCAGAGCTGAGGTTCAAGTAATA
CTGGAGACTGATTGGAGAGCTGGCAAAGGAAGTCAGGAAGGAGAAGGCCCTGGGGATCCGGAAGAAGTAA
AGCTTGCTGTCCAGCAGGACCTGTGGCAGAGCCAGGCAGCACTCCACCCTGCCCCCAATAAAGCTT
TCTTCTTGAAAAAAAAAAAAAAAA
```

Restriction Sites:	RsrII-NotI
ACCN:	BC005687
Insert Size:	297 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [BC005687](#), [AAH05687](#)

**RefSeq Size:** 723 bp

**RefSeq ORF:** 297 bp

**Locus ID:** 20196

**Cytogenetics:** 3 39.24 cM

**Gene Summary:** Plays a role in the export of proteins that lack a signal peptide and are secreted by an alternative pathway. Binds two calcium ions per subunit. Binds one copper ion. Binding of one copper ion does not interfere with calcium binding. Required for the copper-dependent stress-induced export of IL1A and FGF1. The calcium-free protein binds to lipid vesicles containing phosphatidylserine, but not to vesicles containing phosphatidylcholine. [UniProtKB/Swiss-Prot Function]