

## Product datasheet for **RN200970**

### **S100a5 (NM\_001106438) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** S100a5 (NM\_001106438) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** S100a5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN200970 representing NM\_001106438  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGACTCCTCTTGAGAAGGCACTGACCACCATGGTCACCACTTCCATAAATATTCAGGGAGAGAGG  
GTAGCAAGTTGACCCTGAGTAGGAAAGAAGCTGAAGGAGCTGATCAAGACAGAAGTCTTGACAGAGAA  
GATGAAGGAGAGCAGCATTGATAACTTGATGAAGAGCCTGGACAAAACAGCGACCAGGATTGACTTC  
AAGGAGTACTCTGTCTCCTGACCACGCTGTGCATGGCCTACAATGACTTCTTCTAGAGGACAACAAGT  
GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001106438  
**Insert Size:** 282 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:** [NM\\_001106438.1](#), [NP\\_001099908.1](#)

**RefSeq Size:** 445 bp

**RefSeq ORF:** 282 bp

**Locus ID:** 295211

**UniProt ID:** [P63083](#)

**Cytogenetics:** 2q34

**Gene Summary:** Binds calcium, zinc and copper. One subunit can simultaneously bind 2 calcium ions or 2 copper ions plus 1 zinc ion. Calcium and copper ions compete for the same binding sites. [UniProtKB/Swiss-Prot Function]