

## Product datasheet for **MG219065**

### **S100a5 (NM\_011312) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** S100a5 (NM\_011312) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** S100a5  
**Synonyms:** S100D9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219065 representing NM\_011312  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACTCCTCTTGAGAAGGCACTGACCACCATGGTCACCACTTTCCATAAATATTCAGGGAGAGAGG  
GTAGCAAGCTGACCCTGAGTAGGAAAGAAGCTGAAGGAGTTGATCAAGACAGAGCTGAGTCTTGCAGAGAA  
GATGAAGGAGAGCAGCATTGATAACTTGATGAAGAGCCTGGACAAAAACAGCGACCAGGAGATTGACTTC  
AAGGAGTACTCTGTTCCTGACCACGCTGTGCATGGCCTACAATGACTTCTCCTAGAGGACAACAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219065 representing NM\_011312  
Red=Cloning site Green=Tags(s)  
METPLEKALTTMVTTFHKYSGREGSKLTL SRKELKELIKTEL SLAEKMKESSIDNLMKSLDKNSDQEIDF  
KEYSVFLTTLCMAYNDFLEDNK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011312.2</a> , <a href="#">NP_035442.1</a>
<b>RefSeq Size:</b>	432 bp
<b>RefSeq ORF:</b>	282 bp
<b>Locus ID:</b>	20199
<b>UniProt ID:</b>	<a href="#">P63084</a>
<b>Cytogenetics:</b>	3 39.27 cM
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]