

## Product datasheet for **MG203669**

### Stx12 (NM\_133887) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stx12 (NM\_133887) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Stx12  
**Synonyms:** AI850350; AU041521; Stx13  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203669 representing NM\_133887  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCTACGGTCCCTTAGACATGTATCGGAACCCGGGCCGTCGGGGCCTCAGCCCCGGGACTTCAACA  
 GCATCATCCAGACATGCAGTGGCAACATCCAGCGGATCAGCCAAGCCACTGCTCAGATAAAGAATTTGAT  
 GAGCCAATTGGAATAAGCAGGACTCAAGCAAATCCAGGAAAATTTGCAACAGTTACAGCACTCCACA  
 AATCAGCTGGCCAAGGAAACAAATGAGTTGCTGAAGGAATTAGGGTCTTGCCCCACCCTTGCTCGCAT  
 CAGAGCAGCGCCAGCAGAAGCTTCAAGAGAGCGGCTCATGAATGACTTCTCGTCGGCCTTAAACAATTT  
 CCAGGTTGTGCAGAGAAAGGTATCTGAGAAGGAAAAGGAGAGCATCGCGAGAGCGAGAGCCGGATCTCGT  
 CTTTCTGCAGAAGACAGGCAGAGAGAAGAGCAGCTCGTCTCATTGACAGCCATGAAGAGTGAACCAAAA  
 TGCAGAGCCAGGAGGAAGAGGTGGCCATCACTGAGCAAGACCTGGAACCTATCAAAGAGAGGGAAACGGC  
 GATTCGGCAGCTGGAGGCTGACATTTTGGATGTCAATCAGATATTTAAAGATTTAGCTATGATGATCCAT  
 GACCAAGGTGATCTGATCGATAGCATAGAAGCCAATGTGGAAAGCTCGGAGGTGCATGTGGAAAGAGCCA  
 CTGATCAGCTACAAAGAGCTGCTTACTATCAGAAAAAATCTCGCAAGAAGATGTGTATCCTCGTGCTTGT  
 CCTGTCAGTGATTGTTACAGTCTTGGTAGTTGTTATCTGGGTTGCTTCTAAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203669 representing NM\_133887  
 Red=Cloning site Green=Tags(s)

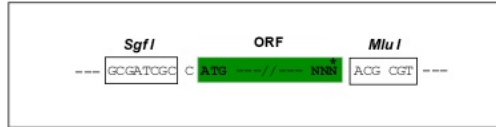
MSYGPLDMYRNPGPSGPQPRDFNSIIQTCSGNIQRISQATAQIKNLMSQLGTKQDSSKLQENLQQLQHS  
 NQLAKETNELLKELGSLPLPLSASEQRQQLKQERLMNDFSSALNNFQVVQRKVSEKESIARARAGSR  
 LSAEDRQREEQLVSFDSHEEWNQMQSQEEVAITEQDLELIKERETAIRQLEADILDVNIQIFKDLAMMIH  
 DQGDLDISIEANVESSEVHVERATDQLQRAAYYQKKSRRKMCILVLVLSVIVTVLVVVIWVASK

TRTRPLE - GFP Tag - V

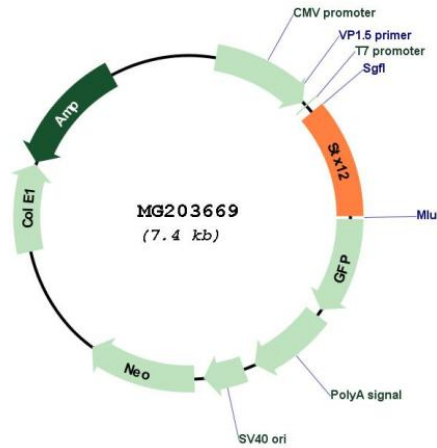
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_133887

**ORF Size:** 822 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<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_133887.2</a> , <a href="#">NP_598648.1</a>
<b>RefSeq Size:</b>	2321 bp
<b>RefSeq ORF:</b>	825 bp
<b>Locus ID:</b>	100226
<b>UniProt ID:</b>	<a href="#">Q9ER00</a>
<b>Cytogenetics:</b>	4 66.01 cM
<b>Gene Summary:</b>	SNARE that acts to regulate protein transport between late endosomes and the trans-Golgi network. The SNARE complex containing STX6, STX12, VAMP4 and VT11A mediates vesicle fusion (in vitro) (By similarity). Through complex formation with GRIP1, GRIA2 and NSG1 controls the intracellular fate of AMPAR and the endosomal sorting of the GRIA2 subunit toward recycling and membrane targeting (By similarity).[UniProtKB/Swiss-Prot Function]