

## Product datasheet for **MG215784**

### Stx16 (NM\_172675) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stx16 (NM_172675) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stx16
Synonyms:	4930401D03; 5430410K23Rik; 6330500A18Rik; AI648908; AW553605; Syn16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215784 representing NM_172675 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACCAGGCGTTTAAACCGACGCTTCTTGTGTTGCGGAATAATTCCATCCAAACCCGGCAGCTGT  
TAGCCGAGCAAGTGAGTAGTCACACCACCTCCAGCCCTCTGCATTCACGTAGCATTGCTGCGGAGCTGGA  
CGAGCTTGCTGATGACCGCATGGCGCTGGTATCAGGCATCAGCCTAGATCCAGAAGCAGCAATTGGCGTG  
ACAAAGCGGTGCGCTCCAAGTGGTGGATGGCGTGGACGAAATACAGTATGATGTTGGCCGATTAAC  
AGAAGATGAAGGAGTTAGCCAGCCTTCATGATAAGCATTGAACAGACCCACCCTGGATGACAGCAGTGA  
GGAGGAACATGCCATCGAGATCACACCCAGGAAGTCACACAGCTCTCCATAGGTGCCAGCGTGTGTG  
CAGGCCCTGCCAGCCGGGCACGAAGGGCTGCTCGGAGCAGGAAGAGCGGCTACTGCGGAACGTGGTGG  
CCTCCTTGGCACAGGCCCTGCAGGAGCTGTCCACCAGCTTCCGGCATGCACAGTCTGACTACCTGAAACG  
CATGAAAACCGAGAGGAGAGATCGCAGCATTTCTTCGACACCCAGTACCACTAATGGATGATGGAGAT  
GATGCTACTCTGTATGGTCAGGGCTTACGGATGACCAGCTGGTGTGCTGGTAGAGCAAAACACACTGATGG  
TGGAGGAGAGGGAGCGAGAGATCCGTGAGATTGTGCAGTCCATTCAGACCTCAATGAAATCTTCAGGGA  
CTTGGGAGCCATGATTGTGGAGCAGGGAACAGTCTTGATAGAATTGACTATAATGTTGAACAGTCTGTG  
GTCAAGACCGAAGATGGCTTGAACAGCTTCAACAAGCTGAGCAGTACCAGAAGAAGAACCGGAAGATGC  
TTGTGATCGTGATCCTGGTGGCCGTATCATAGTCTCCTCGTGGCCCTCGTCGCGGTAAGTCTCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG215784 representing NM\_172675  
 Red=Cloning site Green=Tags(s)

MATRRLLTDAFLLLRNNSIQTRQLLAEQVSSHTTSSPLHSRSIAAELDELADDRMALVSGISLDPEAAIGV  
 TKRSPKWDVGVDEIQYDVGRKQKMKELASLHDKHLNRPTLDDSSSEEEHAIEITTQEVTQLFHRCQRAV  
 QALPSRARRACSEQEERLLRNNVASLAQALQELSTFRHAQSDYLRMKNREERSQHFFDTPVPLMDDGD  
 DATLYGQGFDDQLVLVEQNTLMVEEREREIRQIVQSIDLNEIFRDLGAMIVEQGTVLDRIDYNVEQSC  
 VKTEDGLKQLHKAQYQKKNRKMMLVIVILVAVIIVLLVALVAVKSR

TRTRPLE - GFP Tag - V

**Restriction Sites:**

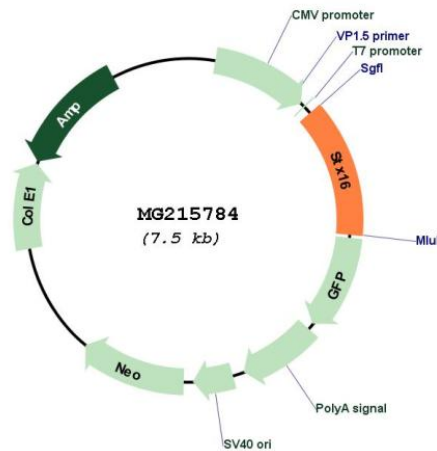
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_172675

**ORF Size:** 978 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_172675.4</a> , <a href="#">NP_766263.2</a>
<b>RefSeq Size:</b>	3768 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	228960
<b>UniProt ID:</b>	<a href="#">Q8BVI5</a>
<b>Cytogenetics:</b>	2 H4
<b>Gene Summary:</b>	SNARE involved in vesicular transport from the late endosomes to the trans-Golgi network. [UniProtKB/Swiss-Prot Function]