

## Product datasheet for **MG217787**

### Sec22a (NM\_133704) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec22a (NM_133704) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec22a
Synonyms:	1810005C06Rik; Sec22l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217787 representing NM_133704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTATGATTTTGTCTGCCTCAGTCATTCGTGTGAGGGATGGACTACCGCTGTCTGCATCCACTGATT  
ATGAGCAGAGCACAGGAATGCAGGAGTGCAGAAAGTACTTTAAGATGCTGTCCAGGAACTTGCTCAATT  
TCCTGATAGATGTACACTGAAAACGGGGCGCTATAACATTAATTTTCATTAGCTCTCTGGGAGTGAGCTAC  
ATGATGTTGTGCAGTGAGAATTATCCAATGTTCTCGCCTTCTCTTTCTGGATGAGCTTCAGAAGGAGT  
TCATTACTACTTATAACATGATGAAGACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAA  
CTTCATTCAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAAAATAAACTGTCTGAC  
ATGCAGATGAAAATCAAGCTGAGGCCCTTATCAAATCCAATGTGTGAACTGGGATCAGCAAATGGAG  
TCACATCTGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCCCATCAGCGACTAGAACC  
AGCAACTCTGTCAGGGATTGTGGCGTTTATCCTTAGTCTTTATGTGGAGCTCTGAATTTAATTCGAGGC  
TTTCATGCCATAGAAAGCCTCCTGCAGAGTGATGGTGAGGATCTTAATTACATTATTGCATTTTCTTGG  
GGACAGCAGCCTGCCTTTACCAGTGTTATTTACTGTGTACTACACCAGCTGGCGGAATGTCAAGTCATT  
TCTGACTTTCGGCTTAATCTGTCTGTGCAACATGTATCTACGAACTGCGCAACCTCTGGCAGCTTTTC  
TTTCATGTGACTGTGGGAGCGTTTGTACACTGCAGATCTGGCTGAGGCAAGCCCAAGGCAAGGCTCCTG  
ACCATGATGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217787 representing NM\_133704  
 Red=Cloning site Green=Tags(s)

MSMILSASVIRVRDGLPLSASTDYEQSTGMQECRKYFKMLSRKLAQFPDRCTLKTGRYNINFISSLGVSY  
 MMLCSENYPNVLAFLDELQKEFITTYNMMKTNATAVRPYCFIEFDNFIQRTKQRYNNPRSLSTKINLSD  
 MQMEIKLRPPYQIPMCELGSANGVTSFAFSVDCKGAGKISSAHQRLEPATLSGIVAFILSLLCGALNLRG  
 FHAIESLLQSDGEDLNYIIAFFLGTAACLYQCYLLVYYTSWRNVKSFLTFGLICLCNMYLYELRNLWQLF  
 FHVTVGAFVTLQIWLRLQAQKAPDHDV

TRTRPLE - GFP Tag - V

Restriction Sites:

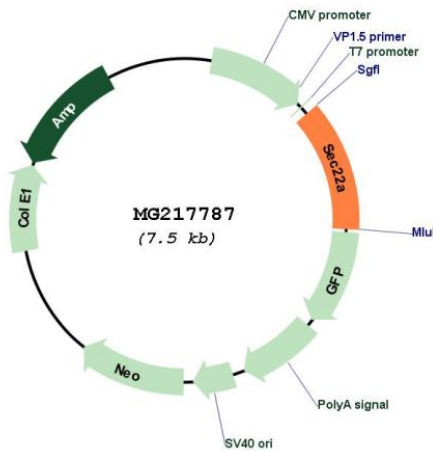
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_133704

ORF Size: 921 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_133704.4</a> , <a href="#">NP_598465.2</a>
<b>RefSeq Size:</b>	3992 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	317717
<b>UniProt ID:</b>	<a href="#">Q8BH47</a>
<b>Cytogenetics:</b>	16 B3
<b>Gene Summary:</b>	May be involved in vesicle transport between the ER and the Golgi complex.[UniProtKB/Swiss-Prot Function]