

## Product datasheet for **MC227445**

### Sec1 (NM\_001271578) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec1 (NM_001271578) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec1
Synonyms:	Fut3; Fut10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227445 representing NM_001271578 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCACCCGAGACTGCGTGGGACAGGAGCACTGTCGCCCCAGCAGGCTTGAAGCTTGGTGGCCCCAAA  
CAAGCCGGCCTAGAAGGATCCAAGCAGTGTCCAGCGACTCAGGGCCATCTGCCACCCCTCTCCACCTT  
CTACCTCTTCTTGTGATTTTCGTGGTGTCTACCATCTTCCACTGCCACCGGCGCCTGAGTCTGGTGCCT  
GGCCCTGGGCTCGCCATCCCTTGTGGTCTTCCCCCAAGACACATGCCCGGGAGGGCATGTTACCA  
TCAGAGTCAAAGCCGCCTGGGGAACCAGATGGGCGAATATGCCACGCTGTTTGCAGTGGCCCGGATGAA  
TGGACGGCTTGCCTTCATCCCTGCGTCCATGCACAGCACACTAGCGCCATCTTCAGGATCAGCCTCCC  
GTGTTGCATAGCGACACAGCCAAAAGGATCCCCTGGCAGAATTACCACCTCAACGACTGGATGGAGGAGC  
GTTACCGCCACATCCCGGGCAGTATGTGCGTTTACGGGATACCCGTGCTCCTGGACCTTCTACCACCA  
CCTGCGCCAGAGATCCTGAAGGAGTTCACCCTGCACGACCATGTGCGTGAGGAGGCCAGGCCCTCCTG  
CGTGGCCTGCAGGTGAATGGGAGCCAGCCAAGTACCTTTGTGGGTGCCATGTGCGCCGAGGGGACTATG  
TGCGTGCATGCCAAGGTGTGAAGGGTGTGGTGGCTGACCGGGTTACCTAGAAAAGGCCCTGGACAG  
GTTCCGGGCACGCTATTTCATCTCCAGTCTTCGTGGTACCAGTATGACATGGCCTGGTCCCGAAGAGC  
ATCACTGCCTCCCGAGGGGACGTGGCATTGCTGGCAATGGCCTTCAGGGATCGCCTGCCAAGGACATTG  
CATTGCTCATGCAGTGAACACACCGTCATCACGCTGGGGACCTTTGGGATCTGGGCTGCCTACCTCAC  
GGGTGGGACACTGTTTACCTGGCTAATTTACCAGCCCAACTCCCCCTCCACACGGTTTTTCAAGCCA  
GAAGCAGTTACCTGCCGAGTGGTGGGCATCGCAGCTGACCTGGGACAGCCAAACACAGTAGGCTCTG  
GCCATGCCTCAGCCAGAGCCCCAAGAGGCACTGGGGGCCTTGTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001271578
<b>Insert Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001271578.1</a></u> , <u><a href="#">NP_001258507.1</a></u>
<b>RefSeq Size:</b>	2470 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	56546
<b>Cytogenetics:</b>	7 29.43 cM
<b>Gene Summary:</b>	This gene is one of three genes in mouse which encode a galactoside 2-L-fucosyltransferase. These genes differ in their developmental- and tissue-specific expression. This gene is predicted to encode a type II membrane protein, which is anchored in the Golgi apparatus and controls the final step in the creation of alpha (1,2) fucosylated carbohydrates by the addition of a terminal fucose in an alpha (1,2) linkage. The biological function of the fucosylated carbohydrate products is thought to involve cell-adhesion and interactions with microorganisms. [provided by RefSeq, Dec 2012]