

## 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227445 representing NM_001271578 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGCCACCCGAGACTGCGTGGGACAGGAGCACTGTCGCCCCAGCAGGCTTGAAGCTTGGTGGCCCCAA  
CAAGCCGGCCTAGAAGGATCCAAGCAGTGCTCCAGCGACTCAGGGCCATCTGCCACCCCTCTCCACCTT  
CTACCTCTTCTCGTGATTTTCGTGGTGTCTACCATCTTCCACTGCCACCGGCGCCTGAGTCTGGTGCCT  
GGCCCCGGGCTCGCCATCCCTTGTGGTCTTCCCCCAAGACACATGCCCGGGAGGGCATGTTACCA  
TCAGAGTCAAAGCCGCCTGGGAACCAGATGGGCGAATATGCCACGCTGTTTGCAGTGGCCCGGATGAA  
TGGACGGCTTGCCCTTCATCCCTGCGTCCATGCACAGCACACTAGCGCCCATCTTCAGGATCAGCCTCCCG  
GTGTTGCATAGCGACACAGCCAAAAGGATCCCGTGGCAGAATTACCACCTCAACGACTGGATGGAGGAGC  
GTTACCGCCACATCCCGGGGCGATATGTGCGTTTCACGGGATACCCGTGCTCCTGGACCTTCTACCACCA  
CCTGCGCCAGAGATCCTGAAGGAGTTCACCCTGCACGACCATGTGCGTGAGGAGGCCAGGCCCTTCTCTG  
CGTGGCCTGCAGGTGAATGGGAGCCAGCCAAGTACCTTGTGGTGTCCATGTGCGCCGAGGGGACTATG  
TGCGTGTATGCCAAGGTGTGAAGGGTGTGGTGGCTGACCGGGGTTACCTAGAAAAGGCCCTGGACAG  
GTTCCGGGCACGCTATTCATCTCCAGTCTTCTGGTACCAGTGATGACATGGCCTGGTGGCGAAGAGC  
ATCACTGCCTCCCGAGGGGACGTGGCATTGCTGGCAATGGCCTTCAGGGATCGCCTGCCAAGGACATTG  
CATTGCTCATGCAGTGCAACCACCGTATCACGCTGGGGACCTTTGGGATCTGGGCTGCCTACCTCAC  
GGGTGGGACACTGTTTACCTGGCTAATTTACCCAGCCCAACTCCCCCTCCACACGGTTTTCAAGCCA  
GAAGCAGCTTACCTGCCGAGTGGGTGGGCATCGCAGCTGACCTGGGACAGCCAAACACAGTAGGCTCTG  
GCCATGCCTCAGCCAGAGCCCCAAGAGGCACTGGGGGGCCTTGCTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<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>NM_001271578.1, NP_001258507.1</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>	<p>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 carbhohydrates by the addition of a terminal fucose in an alpha (1,2) linkage. The biological function of the fucosylated carbhohydrate products is thought to involve cell-adhesion and interactions with microorganisms. [provided by RefSeq, Dec 2012]</p>