

Product datasheet for MC224998

Pcsk5 (NM_001190483) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk5 (NM_001190483) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pcsk5
Synonyms:	b2b585C; b2b585Clo; b2b1549C; b2b1549Clo; PC; PC5; PC5/; PC6; SP; SPC6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224998 representing NM_001190483 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGACTGGGACTGGGGAAACCGCTGCAGCCGCCCGGGACGGCGGGACCTGCTGTGCGTGTGGACTGC
TCGCCGGTGTCTGCTCCCGGTATGCCGGACGCGCTCTACACCAACCACTGGGCAGTGAAGATCGCCGG
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TTACCATCACACCCACGGAGGGGAGACCTGGCCATCTATCTGACATCACCCCTCAGGAACCAGATCCCA
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 GGCGTGGAGTTGCTTGTCTGTGTGGAGCTACCACCTTCTGAAAGGAATCTGCATCCCAGAATGTATC
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CTGCCTCCATTGCTGCAATGCCTCCCACTCCCGCAGATCCCAGGACTGCTGCGACTGCCAGAGTTCCACA
 GATGAGTGCATCCTTCCAGCCAGGGAGGCTGAGTTTTACGAGCACACCAAGACTGCTCTGCTAGTGACCT
 CTGGCGCCATGCTGTTGCTGCTGCTGGGGGCTGCTGCGGTGCGTGTGGCGGAAGTCTCGAAGCAGACCTGT
 GGCAAAGGGGCGGTACGAAAAGCTGGCAGAACCCTACCGTGTCACTCCTCCTACAGGAGCAGCTATCTT
 GACGAGGACCAGGTGATTGAGTACAGGGACCGGGACTACGATGAGGACGATGAGGACGACATCGTCTATA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001190483
- Insert Size:** 5634 bp
- OTI Disclaimer:** 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).
- Components:** 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).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 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.
- RefSeq:** [NM_001190483.2](#), [NP_001177412.1](#)
- RefSeq Size:** 7193 bp
- RefSeq ORF:** 5634 bp
- Locus ID:** 18552
- UniProt ID:** [Q04592](#)
- Cytogenetics:** 19 12.86 cM

Gene Summary:

This gene encodes a subtilisin-like proprotein convertase that mediates posttranslational endoproteolytic processing of various proprotein substrates traversing the secretory pathway. The encoded protein is an inactive zymogen that undergoes autoproteolytic processing in the endoplasmic reticulum and the Golgi network to generate an active enzyme. Mice lacking the encoded protein die at an early embryonic stage. Conditional inactivation this gene in the epiblast but not in the extraembryonic tissue bypasses embryonic lethality but results in death at birth. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2015]

Transcript Variant: This variant (1, also known as PC6B) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.