

Product datasheet for **MC222581**

Pcsk5 (NM_001163144) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk5 (NM_001163144) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pcsk5
Synonyms:	b2b585C; b2b585Clo; b2b1549C; b2b1549Clo; PC; PC5; PC5/; PC6; SP; SPC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222581 representing NM_001163144
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTGGGACTGGGGAAACCGCTGCAGCCGCCCGGACGGCGGGACCTGCTGTGCGTGTGGCACTGC
 TCGCCGGCTGTCTGCTCCCGGTATGCCGGACGCGCGTCTACACCAACCACTGGGCAGTGAAGATCGCCGG
 CGGCTTCGCGGAGGCAGATCGCATAGCCAGCAAGTACGGATTCATCAACGTAGGACAGATCGGTGCACTG
 AAGGACTACTATCACTTCTACCATAGTAGGACCATTAAAAGGTCTGTTCTCTCGAGCAGAGGAACCCACA
 GTTTTCATTTCAATGGAACCAAAGGTGGAGTGGATCCAACAGCAAGTGGTGAAGAAAGAACCAAGAGGGA
 TTATGACCTCAGCCATGCCAGTCAACCTACTTCAATGATCCCAAGTGGCCAAGTATGTGGTACATGCAC
 TGCAGTGACAACCCCATCCTTGCCAGTCAGACATGAATATCGAAGGAGCCTGGAAGAGAGGCTACACGG
 GGAAGAATATCGTGGTACTATCCTGGATGACGGCATCGAGAGAACCACCCAGATCTGATGCAAAACTA
 CGATGCTCTGGCAAGTTGCGATGTGAATGGGAATGACTTGGACCCGATGCCTCGTTATGATGCAAGCAAT
 GAGAACAAGCATGGGACCCGCTGTGCCGAGAAGTGGCAGCCACTGCAAACAACCTCACTGCACCTGTCG
 GGATCGCTTTCAACGCCAAGATTGGAGGTGTGAGAATGCTGGATGGTGTGCTACTGACATGGTGGAGGC
 AAAGTCTGTGACTACAACCCACAGCATGTGCACATCTACAGTGCCAGCTGGGGACCAGATGACGATGGC
 AAGACTGTGGATGGGCCAGCTCCCTCACCCGGCAAGCCTTTGAGAACGGCGTGAGAATGGGGCGGAGAG
 GCCTTGGATCTGTGTTGTGTGGGCATCTGGCAATGGTGGACGGAGCAAGGATCACTGTTCTTGTGATGG
 CTATACCAACAGCATCTATACCATCTCCATCAGCAGTACGGCCGAAAGTGGAAAGAAACCTTGGTACTTG
 GAAGAGTGTTCATCTACACTGGCTACAACCTACAGCAGTGGAGAATCCTATGATAAGAAAATAATCACTA
 CTGATCTAAGGCAGCGATGCACAGACAATCACACTGGAACATCAGCCTCAGCCCCATGGCTGCTGGAA
 CATTGCCCTGGCCCTAGAAGCCAATCCGTTTCTGACCTGGAGAGACGTGCAGCATGTTATTGTGAGGACT
 TCCCGTGCGGGACATTTGAACGCTAATGACTGGAAAACCAATGCTGCTGGTTTTAAGGTGAGCCATCTCT
 ATGGATTTGGACTGATGGATGCCGAAGCCATGGTGTGGAAGCAGAGAAGTGGACAACCTGTTCTCAGCA
 GCACGTGTGTGTGAAAGCACAGACCGACAATCAAGACCATTGACCAACAGTGCAGTGCCTCCATC
 TACAAAGCCTCAGGCTGCTCGGATAATCCCAACCATCACGTCAATTACCTGGAGCATGTAGTTGTGCGTA
 TTACCATCACACCCACGGAGGGGAGACCTGGCCATCTATCTGACATCACCTCAGGAACCAGATCCCA
 GCTCTTGGCCAACAGGCTCTTTGATCATTCCATGGAAGGGTTAAGAAGTGGGAGTTCATGACTATTCAT
 TGCTGGGAGAACGGGCTGCTGGGACTGGGTCTCGAAGTTTATGATACGCCATCTCAGCTGAGGAACT
 TCAAGACTCCAGTAAATTTGAAAGAATGGTCTTAGTCCTCTATGGCACGTCCGTACAGCCATACTCCCC
 AACCAACGAGTTTCCAAAGTGGAAACGCTTCCGCTACAGCCGAGTGGAAAGCCCCACAGATGACTACGGT
 GCTGAAGATTATGCAGGTCCCTGTGACCCTGAATGCAGTGAAGTGGATGTGACGGGCCAGGACCAGATC
 ACTGCAGTGAAGTCTTACTACTACTACAAGTGAAGAAATAACACCAGAATCTGTGCTCCAGCTGCC
 TCCTGGCCACTACCATGCTGACAAGAAGAGATGCCGGAAGTGTGCCCAAACCTGCGAGTCTGCTTTGGC
 AGCCATGGTAATCAGTGCCTCCTCTGTAATATGGCTACTTCTGAATGAAGAACTAGCAGCTGTGTTA
 CTCAGTGCCTGATGGATCATACGAGGATATCAAGAAAAATGTCTGTGGGAAATGCAGTGAAGTGC
 GGCATGCATTGGATTTCACAACTGCACAGAGTGAAGGGCGGGTTAAGTCTTCAGGGATCCCCTGTTTCG
 GTCACCTGCGAGGATGGACAGTTCCTCAATGGTACGACTGCCAGCCCTGCCATCGCTTCTGTGCTACTT
 GCTCTGGGCGGAGCAGATGGATGATTAAGTGCACCGAGGGTATGTCATGGAAGAGGGAAGGTGTGT
 ACAAAGTTGTAGTGTGAGCTACTACTTGGACCACTCTTCAGAGGGTGGCTACAAATCCTGCAAGAGATGT
 GATAACAGCTGTTTGACATGCAATGGGCCAGGATCAAGAACTGTTCCAGCTGCCCCAGTGGATATCTTT
 TAGACTTAGGAACGTGTCAGATGGGAGCCATCTGCAAGGATGCTACGGAAGAGTCTGGGAGAGGAGG
 CTTCTGTATGCTGTGAAAAAGAACAATCTCTGTGACGAAAAAGTTCTACAACAGCTGTGCTGCAAAACA
 TGTACATCCAAGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN:	NM_001163144
Insert Size:	2748 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:	<ol style="list-style-type: none">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:	<u>NM_001163144.1</u> , <u>NP_001156616.1</u>
RefSeq Size:	5783 bp
RefSeq ORF:	2748 bp
Locus ID:	18552
Cytogenetics:	19 12.86 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2, also known as PC6A) represents use of an alternate 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a substantially shorter and distinct C-terminus, compared to isoform 1. This isoform (2) may undergo proteolytic processing similar to 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 alignments.</p>