

Product datasheet for **RN207350**

Pcsk1n (NM_019279) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk1n (NM_019279) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pcsk1n
Synonyms:	Saas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207350 representing NM_019279 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGGGTCGCCGCTGCTCTGCGGGCCGAGGGCCGGGGCGTAGGCCTTTGGTGCTGCTGCTCTTGG
 GTCTTCTGAGGCTGCCCCACCTTGTGAGCGAGGCCGTGAAGGAACCCGAGTCTGAGCGCAGCATC
 CGCGCCCTTGGCTGAGACGAGCACTCCCTCCGCTTGCCTCGGGCCGTGCCCCGAGGAGAGGCGGGT
 GCGGTGCAGGAGCTGGCGGGGCGCTGGCGACCTGCTGGAGGCCGAGAGACAGGAGCGCGCGTCTG
 AGGCGCAGGAGGCGGAGGATCAGCAGGCACGGTCCTGGCACAGCTGCTGCGCGCTGGGCTCCCCGCG
 TGCTCGGACCCGCCCTTGGCCCCGGATGACGACCCGGACGCTCCCGCTGCACAGCTCGCCCGTGTCTG
 CTCCGAGCTCGCTAGACCCGGCCGCCCTGGCGGCTCAGCTTGTCCCCGCCCTGCCCTGCCGTGCGC
 TGCGACCCCGCCCCAGTGTATGACGATGGCCCCACCGGCCAGACGTCGAGGATGCCGCTGACGAGAC
 TCCTGATGTGGACCTGAGCTGCTGAGGTAATTGCTAGGGCGGATCCTCACCAGGATTCGGAGCCAGAG
 GCTGCTCCGGCCCCGCGCCGCTCCGCCGAGCTGTGGACCAGGATTTGGTCCCGAGGTGCTCTGAGA
 ACGTACTGGGGGCTCTGCTACGCGTCAAACGCTCAGAACTCCTCGCCCCAGGCACCGGCACGCCGCT
 CCTGCCTCC**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_019279
Insert Size:	783 bp


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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:	<u>NM_019279.1</u> , <u>NP_062152.1</u>
RefSeq Size:	945 bp
RefSeq ORF:	783 bp
Locus ID:	246333
UniProt ID:	<u>Q9QXU9</u>
Cytogenetics:	Xq12
Gene Summary:	May function in the control of the neuroendocrine secretory pathway. Proposed be a specific endogenous inhibitor of PCSK1. ProSAAS and Big PEN-LEN, both containing the C-terminal inhibitory domain, but not the processed peptides reduce PCSK1 activity in the endoplasmic reticulum and Golgi. It reduces the activity of the 87 kDa form but not the autocatalytically derived 65 kDa form of PCSK1. Subsequent processing of proSAAS may eliminate the inhibition. Slows down convertase-mediated processing of proopiomelanocortin and proenkephalin. May control the intracellular timing of PCSK1 rather than its total level of activity. The function of the processed secreted peptides is not known (By similarity). [UniProtKB/Swiss-Prot Function]