

Product datasheet for **SC117224**

PCSK7 (NM_004716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCSK7 (NM_004716) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCSK7
Synonyms:	LPC; PC7; PC8; SPC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117224 sequence for NM_004716 edited (data generated by NextGen Sequencing)

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ATGCCGAAGGGGAGGCAGAAAGTGCCACACTTGGATGCCCCCTGGGCTGCCACCTGC
CTCTGGCTGGAATTAGCCGGGCTCTTCTACTGGTTCCCTGGGTCATGGGCTGGCAGGG
ACAGGTGGGCTGATGGCCAGGGCACAGGGGGCCGAGCTGGGCTGTGCACCTGGAAGC
CTGGAAGGTGACGGGGAGGAAGAGACTCTGGAGCAGCAGGCGGATGCCTTGGCCAGGCA
GCAGGGCTGGTGAATGCTGGACGCATCGGAGAGCTTCAGGGGCACTACCTCTTTGTCCAG
CCTGCTGGGCACAGGCCGGCCCTGGAGGTGGAGGCCATCCGGCAGCAGGTGGAGGCTGTG
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CGCAGCGTCCACTTCAACGACCCCAAGTACCCGCAGCAATGGCACCTGAATAACCGACGG
AGCCCCGGGACGGGACATCAACGTGACGGGTGTGTGGAAACGCAATGTGACTGGGCGAGGG
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TATAGCCCTGAGGGTAGCTATGACCTCACTCTAATGACCCTGACCCCATGCCCCACCCG
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AATGACATCTACAGCTGCAGCTGGGACAGATGACGATGGGAAGACAGTGGATGGCCCC
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CTCCCACACCTCTGACCTCCTTGCCCCAGACCTGCTGGAGCAAGGGGACTGGAGCCTG
TCCCAGAACAAGAGCGCCCTGGACTGCCCTCATCAGCACCTAGACGTACCGCACGGGAAG
GAGGAGCAGATCTGCTGA
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Clone variation with respect to NM_004716.2
1770 t=>g;2037 t=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004716 unedited TCCCCGCCCTGTTGNCGCAAAGGGCGGTATGCGTGTACGGTGGGAGGTCTATATAAGCAG AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA TTCGGCACGAGGGCGGGCGGACAGTGCAGCGGGGCGGCTGTAGCCTTTGCTGAGTCAAC ACTACTCACAGTAAAAGTGATGCCTTTTCTCCATTTGCACAACATGAGTGTGACGTGGTT AGCCAGACCAGGAGCTCAACCTCATGTAGAATCCAGTCCACTGCTCTGATGCCGAAGGGG AGGCAGAAAAGTGCCACACTTGGATGCCCCCTGGGCTGCCCACCTGCCTCTGGCTGGAA TTAGCCGGCTCTTCTTACTGGTCCCTGGGTCATGGGCCTGGCAGGGACAGGTGGGCCT GATGGCCAGGGCACAGGGGGCCGAGCTGGGCTGTGCACCTGGAAGCCTGGAAGGTGAC GGGGAGGAAGAGACTCTGGAGCAGCAGGCGGATGCCTTGCCAGGCAGCAGGGCTGGT AATGCTGGACGCATCGGAGAGCTTCAAGGGCACTACCTCTTTGTCCAGCCTGCTGGGCAC AGGCCGGCCCTGGAGGTGGAGGCCATCCGGCAGCAGGTGGAGGCTGTGTTGGCTGGGCAT GAAGCTGTGCGCTGGCACTCAGAGCAGANGCTGCTAAGGCGGGCAAGCGCAGCCTTAC TTCAACGACCCCAAGTACCCGACGAATGGCACCTGAATAACCGACGGAGCCCGGGCAGG GACATCAACGTGACGGGTGTGTGGAAACGCATGTGACTGGGCGAAGGGTGACCGTGGTG GTATTGGATGACCGAGTGGAAACACATCCAGGACATGCACCAACTTAGCCCTGAGGTA GCTATGACCTCACTCTATGACCCTGACCCTGCCCCACCCGGTGTGGAGGATGNGNACCCC ATGCCCCCG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004716 unedited GTATAGCTATGNNACCGCGCCGAATCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTTTTT GGAAGTTTTTTATTTTGGAAAAGCTGTGCAGAAAAAATCAAGAAAATGTTGCTGTGAAA AGAGAAAAACAAATCTTAAGCATTAAAAAAAATCAACCAACTAGCTCAGAAGAGGGGAG AAGGCCAAGGTTGAGAGAAGAGTCAAGCCTGTGAGGCAGATAGCTGGCCTCCGGCGGGA AGGCCATTTCCCTGAGCACTTGCAGAGGAAGACAGGGTGGTGGCAGGACTGGAGTGGCAG TGGCTCCCAAGGCTCTCTCCTCCAACATGTGCATCTGCCATCTGCTCTGCAGTCTGCCG CAGGATTCCTAGTGAAGCAGCTCAAGCCTGGGGGAGCCGTGTGTATCCCAGCTGTGCCG GCAGCATCATACCAATCGTGGGGTGGTGAAGGAGCCAGGGGTTCAATCATGGGTGGTTT CTGATCAGGCATCTTGGGAATGGATAATGGAGGCAGCCGCTTTCAGGACAGGCATGTTCA GGGGCTCCTCCCAGCCTTACCCGGAAGTCTCTTTTCCAAGTGACCCCACTGATGTTTTCC CTTGAGATGCGCTCCTGGCTATGGGAAGGACCCTCTCAACTTATATGTGGAAGGGGTCC CCCCTGCTTGGGGACCAAGCACCTGGCTTGGCCCAAAAAATGAGGGTGGGGGGCAAAC CAAAGGGGGGGCCAATCCCGTGCAAACCCTCTTACAAAAACGCCCGTTGGGTGGGGG CGGAACCTGGGGTCTGAACCACATCTCTTGGGGGAAATCCCCCCTTTTTGTTTTAAAA AGGCCCTACCCCTTTTTGGTGGGGCCAGGAAGGCCCCACTTCCCGAGGTTAGGCC TCCAAACG</p>
Restriction Sites:	ECORI-NOT
ACCN:	NM_004716
Insert Size:	4000 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_004716.2](#), [NP_004707.2](#)

RefSeq Size: 3497 bp

RefSeq ORF: 2358 bp

Locus ID: 9159

UniProt ID: [Q16549](#)

Cytogenetics: 11q23.3

Domains: Peptidase_S8, P_proprotein

Protein Families: Druggable Genome, Protease, Transmembrane

Gene Summary: This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. It encodes a type 1 membrane bound protease that is expressed in many tissues, including neuroendocrine, liver, gut, and brain. The encoded protein undergoes an initial autocatalytic processing event in the ER and then sorts to the trans-Golgi network through endosomes where a second autocatalytic event takes place and the catalytic activity is acquired. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It can process proalbumin and is thought to be responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene has been implicated in the transcriptional regulation of housekeeping genes and plays a role in the regulation of iron metabolism. A t(11;14)(q23;q32) chromosome translocation associated with B-cell lymphoma occurs between this gene and its inverted counterpart. [provided by RefSeq, Feb 2014]