

## Product datasheet for SC331435

### Proprotein Convertase 2 (PCSK2) (NM\_001201528) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proprotein Convertase 2 (PCSK2) (NM_001201528) Human Untagged Clone
Tag:	Tag Free
Symbol:	Proprotein Convertase 2
Synonyms:	NEC-2; NEC 2; NEC2; PC2; SPC2
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331435 representing NM_001201528. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGTTTTGCATCTGCTGAGCGACCGGTCTTCACGAATCATTTTCTTGTGGAGTTGCATAAAGGGGA
GAGGACAAAGCTCGCAAGTTGCAGCAGAACACGGCTTTGGAGTCCGAAAGCTTCCCTTTGCTGAAGGT
CTGTACCACTTTTATCACAATGGCCTTGCAAAGGCCAAGAGAAGAGCGCAGCTACACCACAAGCAGCAG
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AGAGACATCAATGAGATCGACATCAACATGAACGATCCTTTTTACAAAGCAGTGGTATCTGATCAAT
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CTGGGATTTGTGGCAGCGCCCCGAGAAGGGGTGCTGAAGGAGTGGACCCTGATGCTGCATGGCACT
CAGAGTGGCCCGTACATCGACCAGGTGGTGCGGGATTACAGTCCAAGTTGGCCATGTCCAAGAAAGAG
GAGCTGGAGGAAGAGCTGGACGAAGCCGTGGAGAGAAGCTGAAAAGCATCCTTAACAAGAACTAG

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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001201528
<b>Insert Size:</b>	1860 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>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><a href="#">NM_001201528.1</a></u>
<b>RefSeq Size:</b>	4687 bp
<b>RefSeq ORF:</b>	1860 bp
<b>Locus ID:</b>	5126
<b>UniProt ID:</b>	<u><a href="#">P16519</a></u>
<b>Cytogenetics:</b>	20p12.1
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>MW:</b>	68.6 kDa

**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. The protein undergoes an initial autocatalytic processing event and interacts with a neuroendocrine secretory protein in the ER, exits the ER and sorts to secretory granules, where it is cleaved and catalytically activated during intracellular transport. The encoded protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (3) differs in the 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.