

## Product datasheet for **RC222498**

### Proprotein Convertase 2 (PCSK2) (NM\_002594) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proprotein Convertase 2 (PCSK2) (NM_002594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Proprotein Convertase 2
Synonyms:	NEC-2; NEC 2; NEC2; PC2; SPC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222498 representing NM\_002594  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGGGTGGTTGTGTCTCCAGTGAAGGCGGCCGGGTTCTCTTCTGTGTGATGGTTTTTGCAT  
 CTGCTGAGCGACCGGTCTTCACGAATCATTCTTGTGGAGTTGCATAAAGGGGAGAGGACAAAGCTCG  
 CCAAGTTGCAGCAGAACACGGCTTTGGAGTCCGAAAGCTTCCCTTTGCTGAAGGTCTGTACCACTTTTAT  
 CACAATGGCCTTGCAAAGGCCAAGAGAAGACGACGCTACACCACAAGCAGCAGCTGGAGAGAGACCCCA  
 GGGTAAAGATGGCTTTGCAGCAGGAAGGATTTGACCGAAAAAGCGAGGTTACAGAGACATCAATGAGAT  
 CGACATCAACATGAACGATCCTCTTTTTACAAAGCAGTGGTATCTGATCAATACTGGGCAAGCTGATGGC  
 ACTCCTGGCCTTGATTTGAATGTGGCTGAAGCCTGGGAGCTGGGATACACAGGAAAGGTGTACCATTG  
 GAATTATGGATGATGGGATTGACTATCTCCACCCGGACCTGGCCTCCAATAAATGCCGAAGCAAGTTA  
 CGACTTCAGCAGCAACGACCCCTATCCTTACCCTCGGTACACAGATGACTGGTTTAAACAGCCACGGGACC  
 CGATGTGCAGGAGAAGTTCTGTGTCGCCCAACAACAATATCTGTGGAGTTGGAGTAGCATACAACCTCCA  
 AGGTTGCAGGCATCCGGATGCTGGACCAGCCATTCATGACAGACATCATCGAGGCCTCTCCATCAGTCA  
 TATGCCACAGCTGATTGACATCTACAGCGCCAGCTGGGGCCCCACAGACAACGGCAAGACAGTGGATGGG  
 CCCCAGGAGCTCACGCTGCAGGCCATGGCCGATGGCGTGAACAAGGGCCGCGCGGCAAGGCAGCATCT  
 ACGTGTGGGCCTCCGGGACGGCGGCAGCTATGACGACTGCAACTGCGACGGCTACGCTCCAGCATGTG  
 GACCATCTCCATCAACTCAGCCATCAACGACGGCAGGACTGCCCTGTACGACGAGAGCTGCTCTCCACC  
 TTGGCTTCCACCTTCAGCAACGGGAGGAAAAGGAACCCCGAGGCCGGTGTGGCAACCACAGATTTGTACG  
 GCAACTGCACTCTGAGGCATTCTGGGACATCTGCAGCTGCCCCGAGGCAGCTGGTGTGTTGCACTGGC  
 TCTGGAGGCTAACCTGGGTCTGACCTGGCGGGACATGCAGCATCTGACTGTGCTCACCTCCAACCGGAAC  
 CAGCTTACGACGAGGTCCATCAGTGGCGGCGCAATGGGGTGGCCTGGAATTTAATCACCTCTTTGGCT  
 ACGGGTCTTGTATGCAGGTGCCATGGTGAATAAGGCTGAAAACCGTGCCTGAGAGATTCCA  
 CTGTGTGGGAGGCTCCGTGCAGGACCCTGAGAAAATACCATCCACTGGCAAGTTGGTGTGACACTCACA  
 ACCGACGCTGTGAGGGGAAGGAAAATTTGTCCGCTACCTGGAGCATGTCCAGGCTGTGATCACGGTCA  
 ACGCAACCAGAAGAGGAGACCTGAACATCAACATGACTTCCCCTATGGGCACCAAGTCCATTTTGTGAG  
 CCGGCGTCCAAGGGATGACGACTCCAAGGTGGGCTTTGACAAGTGGCCTTTCATGACCACTCACACGTGG  
 GGGGAAGACGCCGAGGCACCTGGACCCTGGAGCTGGGATTTGTGGCAGCGCCCGCAGAAGGGGGTGC  
 TGAAGGAGTGGACCTGATGCTGATGGCACTCAGAGTGGCCCGTACATCGACCAGGTGGTGGGGATTA  
 CCAGTCCAAGTTGGCCATGTCCAAGAAAGAGGAGCTGGAGGAAGAGCTGGACGAAGCCGTGGAGAGAAGC  
 CTGAAAAGCATCCTTAACAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_002594.5](#)

**RefSeq Size:** 4745 bp

**RefSeq ORF:** 1917 bp

**Locus ID:** 5126

**UniProt ID:** [P16519](#)

**Cytogenetics:** 20p12.1

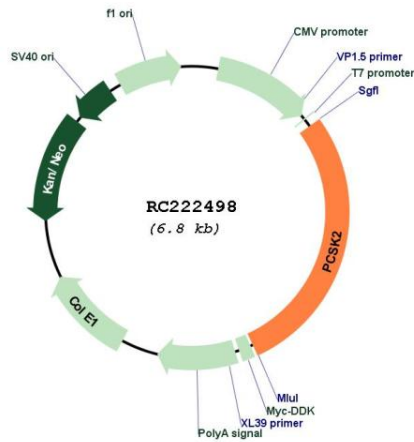
**Domains:** Peptidase\_S8, P

**Protein Families:** Druggable Genome, Protease, Secreted Protein

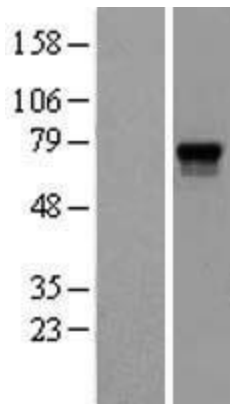
**MW:** 70.57 kDa

**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]

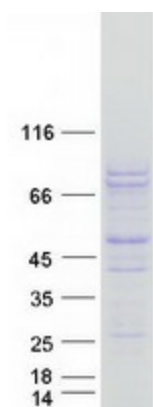
Product images:



Circular map for RC222498



Western blot validation of overexpression lysate (Cat# [LY419211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222498 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCSK2 protein (Cat# [TP322498]). The protein was produced from HEK293T cells transfected with PCSK2 cDNA clone (Cat# RC222498) using MegaTran 2.0 (Cat# [TT210002]).