

Product datasheet for **RC230090**

PC1/3 (PCSK1) (NM_001177876) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PC1/3 (PCSK1) (NM_001177876) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PC1/3 |
| Synonyms: | BMIQ12; NEC1; PC1; PC3; SPC3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC230090 representing NM_001177876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGATGGCATTGTGACGGATGCTATTGAGGCCAGTTCAATTGGATTCAATCCTGGACACGTGGATA
 TTTACAGTGCAAGCTGGGGCCCTAATGATGATGGGAAAAGTGTGGAGGGCCCTGGCCGGCTAGCCAGAA
 GGCTTTTGAATATGGTGTCAAACAGACGAGCGCTGACCTGCACAATGACTGCACGGAGACGCACACAGGC
 ACCTCGGCCTCTGCACCTCTGGCTGCTGGCATCTTCGCTCTGGCCCTGGAAGCAAACCAATCTCACCT
 GGCGAGATATGCAGCACCTGGTTGTCTGGACCTCTGAGTATGACCCGCTGGCCAATAACCTGGATGGAA
 AAAGAATGGAGCAGGCTTGATGGTGAATAGTCGATTTGGATTTGGCTTGCTAAATGCCAAAGCTCTGGT
 GATTTAGCTGACCCAGGACCTGGAGGAGCGTGCCTGAGAAGAAAGAGTGTGTTGTAAGGACAATGACT
 TTGAGCCAGAGCCCTGAAAGCTAATGGAGAAGTTATCATTGAAATCCAACAAGAGCTTGTGAAGGACA
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 CTTTATGTCACACTTACTTCTGCTGCTGGAAGTACGACTGTGCTCTTGGCTGAAAGAGAACGGGATACAT
 CTCTAATGGCTTTAAGAATTGGGACTTCATGTCTGTTACACATGGGGAGAGAACCCTATAGGTAAGTCTG
 GACTTTGAGAATTACAGACATGTCTGGAAGAATCAAAATGAAGGAAGAATTGTGAACTGGAAGCTGATT
 TTGACGGGACCTCTTCTCAGCCAGAGCATATGAAGCAGCCTCGTGTGTACACGCTCTACAACACTGTTC
 AGAATGACAGAAGAGGGGTGGAGAAGATGGTGGATCCAGGGGAGGAGCAGCCACACAAGAGAACCCTAA
 GGAGAACCCTGGTGTCCAAAAGCCCCAGCAGCAGCAGCGTAGGGGGCCGGAGGGATGAGTTGGAGGAG
 GGAGCCCTTCCAGGCCATGCTGCGACTCCTGCAAAGTGCTTTCAGTAAAACTCACCGCCAAAGCAAT
 CACCAAAGAAGTCCCAAGTCAAAGCTCAACATCCCTTATGAAAATCTACGAAGCCCTGGAAGAGCT
 GAACAAAACCTCCAGCTTAAAGACTCTGAAGACAGTCTGTATAATGACTATGTTGATGTTTTTTATAAC
 ACTAAACCTTACAAGCACAGAGACGACCGCTGCTTCAAGCTCTGGTGGACATTCTGAATGAGGAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230090 representing NM_001177876
 Red=Cloning site Green=Tags(s)

MLDGIIVTDAIEASSIGFNPGHVDIYSASWGNDDGKTVEGPGRLAQKAFEYGVKQTSADLHNDCTETHTG
 TSASAPLAAGIFALALEANPNLTWRDMQHLVWVTSEYDPLANNPGWKNKAGLMVNSRFGFLNNAKALV
 DLADPRTWRSVPEKKECVKDNDFEPRALKANGEVIEIPTRACEGQENAIKSLEHVQFEATIEYSRRGD
 LHVTLTSAAGTSTVLLAERERDTPNGFKNWDFMSVHTWGENPIGTWTLRITDMSGRIQNEGRIVNWKLI
 LHGTSSQPEHMKQPRVYTSYNTVQNDRRGVEKMVDPGEEQPTQENPKENTLVSKSPSSSVGGRRDELEE
 GAPSQAMLRLQLSAF SKNSPPKQSPKSPSAKLNIPYENFYEALEKLNKPSQLKDESDSLYNDYVDVDFYN
 TKPYKHRDRLLQALVDILNEEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

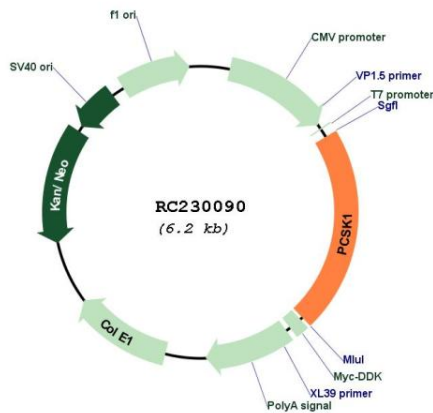
https://cdn.origene.com/chromatograms/mk8007_d08.zip

Restriction Sites:

Sgfl-Mlul

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 encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to subcellular compartments where a second autocatalytic event takes place and the catalytic activity is acquired. The 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. Mutations in this gene have been associated with susceptibility to obesity and proprotein convertase 1/3 deficiency. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene [provided by RefSeq, Jan 2014]

Product images:

Circular map for RC230090