

Product datasheet for **RG218596**

Proprotein convertase PC4 (PCSK4) (NM_017573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Proprotein convertase PC4 (PCSK4) (NM_017573) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Proprotein convertase PC4
Synonyms:	PC4; SPC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG218596 representing NM_017573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGCCCGCCCGATTGCGCTGTGGCTGCGCCTGGTCTTGGCCCTGGCCCTTGTCCGCCCCCGGGCTG
 TGGGGTGGGCCCCCGGTCCGAGCCCCATCTATGTCAGCAGCTGGGCCGTCCAGGTGTCCCAGGGTAACCG
 GGAGGTCGAGCGCCTGGCAGCAAATTCGGCTTCGTCAACCTGGGGCCGATCTTCCCTGACGGGCAGTAC
 TTTCACCTGCGGCACCGGGCGTGGTCCAGCAGTCCCTGACCCCGCACTGGGGCCACCGCTGCACCTGA
 AGAAAAACCCCAAGTGCAGTGGTTCAGCAGCAGACGCTGCAGCGGGGGTAAACGCTCTGTCGTGGT
 GCCCACGACCCCTGGTCTCCAAGCAGTGGTACATGAACAGCGAGGCCCAACCAGACCTGAGCATCCTG
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 CAGCTGGGGTCCCGAGGACGACGGCCGACGGTGGACGGCCCGGCATCCTCACCCGCGAGGGCTTCCGG
 CGTGGTGTGACCAAGGGCCGCGGGGGCTGGGCACGCTTTCATCTGGGCTCGGGCAACGGCGGGCTGC
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 GCAGGGCCCGGTGCCCTGGTACAGCGAAGCCTGCGCCTCACCCCTCACACCACCTACAGCAGCGGGCTG
 GCCACCGACCCCGATCGTACCACGGACCTGCATCACGGGTGCACAGACCAGCACACGGGCACCTCGG
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 CACGTGCAGGGCAGCTGACGCTGTCTACAGCCGGCGGAGACCTGGAGATCTCGCTCACCAGCCCCA
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 CGCGGCCACAGGCCCCAGGTGACCAGCAGCGGTGTGTGCAGCGGGACACAGAGGGGCTGTGCCAGGC
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 ACAAGGCTGGTGACCGCTGGGCCTGGGCACACGGCGGCGCCCGCTGAGGGTCTGCTCCAGCTGCCATG
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 CCAGCAGCAGGGCTCCTGCATGGGACCCACCCCGACAGCCGCCCGGGCTTAGAGCTGCCGCTGT
 CCCCACACCGCTGCCAGCCTCGGCCATGGTGTGAGCCTCCTGGCCGTGACCTCGGAGGCCCGCTCC
 TCTGCGGCATGTCATGGACCTCCACTATACGCTGGCTCTCCCGTCCAGGGCCACCCCAACCAACC
 CCAGGTCTGGCTGCCAGCTGGAACC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218596 representing NM_017573
Red=Cloning site Green=Tags(s)

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MRPAPIALWLRLVLALALVRPRAVGWAPVRAPIYVSSWAVQVSQGNREVERLARKFGFVNLGPIFPDGQY
FHLRHRGVVQQLTPHWGHRHLKKNPKVQWFQQQLQRRVKRSVVVPTDPWFSKQWYMNSEAQPDLNIL
QAWSQGLSGQGI VVSVLDDGIEKDHPDLWANYDPLASYDFNDYDPPQPRYPYTPSKENRHGTRCAGEVAAM
ANNGFCGVGVAFNARIGGVRMLDGTITDVIEAQSLSLQPQHIHIYSASWGPEDDGRITVDGPGILTREAFR
RGVTKRGGGLGTLFIWASGNGLHYDNCNDGYTNSIHTLSVGSTTQQGRVPWYSEACASTLTTTYSSGV
ATDPQIVTTDLHHGCTDQHTGTSASAPLAAGMIALALEANPFLTWRDMQHLVVRASKPAHLQAEDWRTNG
VGRQVSHHYGYLLDAGLLVDTARTWLPTQPQRKCAVRVQSRPTPLPLIYIRENVSACAGLHNSIRSLE
HVQAQLTLSYSRRGDLEISLTSMPGTRSTLVAIRPLDVSTEGYNNWVFMSTHFDENPQGVWTLGLENKG
YYFNTGTLRYRTLLLYGTAEDMTARPTGPQVTSACVQRDTEGLCQACDGPAYILGQLCLAYCPRFFNH
TRLVTAGPGHTAAPALRVCSCHASCYTCRGGSPRDCSTCPPSSTLDQQQGSCMGPTTPDSRPLRAAAC
PHHRCPASAMVLSLLAVTLGGPVLCGMSMDLPLYAWLSRARATPTKPQVWLPAGT
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017573

ORF Size: 2265 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_017573.4](#), [NP_060043.2](#)

RefSeq Size: 2674 bp

RefSeq ORF: 2268 bp

Locus ID: 54760

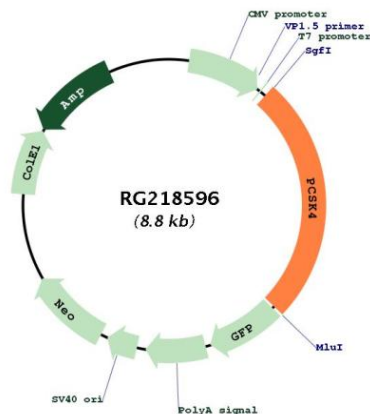
UniProt ID: [Q6UW60](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Protease

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 even 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. The protease is expressed only in the testis, placenta, and ovary. It plays a critical role in fertilization, fetoplacental growth, and embryonic development and processes multiple prohormones including pro-pituitary adenylate cyclase-activating protein and pro-insulin-like growth factor II. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG218596