

## Product datasheet for **RG204094**

### PC6 (PCSK5) (NM\_006200) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PC6 (PCSK5) (NM_006200) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PC6
Synonyms:	PC5; PC6; PC6A; SPC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG204094 representing NM\_006200  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTGGGGAGCCGCTGCTGCTGCCGGGACGTTTGGACCTGCTGTGCGTGTGGCGTGTCTCGGG  
 GCTGCCTGCTCCCGTGTGTCGGACGCGGTCTACACCAACCACTGGGCAGTCAAAATCGCCGGGGCTT  
 CCCGGAGGCCAACCGTATCGCCAGCAAGTACGGATTTCATCAACATAGGACAGATAGGGGCCCTGAAGGAC  
 TACTACCCTTCTACCATAGCAGGACGATTAAGGTGAGTTATCTCGAGCAGAGGGACCCACAGTTTCA  
 TTTCAATGGAACCAAGGTGGAATGGATCCAACAGCAAGTGGTAAAAAGCGGACAAAGAGGGATTATGA  
 CTTTCAGTCGTGCCAGTCTACCTATTTCAATGATCCCAAGTGGCCAGCATGTGGTATATGCACTGCAGT  
 GACAATACACATCCCTGCCAGTCTGACATGAATATCGAAGGAGCCTGGAAGAGAGGCTACACGGAAAGA  
 ACATTGTGGTCACTATCCTGGATGACGGAATTGAGAGAACCCATCCAGATCTGATGCAAACTACGATGC  
 TCTGGCAAGTTGGACGTGAATGGGAATGACTTGGACCAATGCCTCGTTATGATGCAAGCAACGAGAAC  
 AAGCATGGGACTCGCTGTGCTGGAGAAGTGGCAGCCGCTGCAAACAATTCGCACTGCACAGTCCGAAATG  
 CTTTCAACGCAAGATCGGAGGAGTGCGAATGCTGGACGGAGATGTCACGGACATGGTTGAAGCAAAATC  
 AGTTAGCTTCAACCCCAAGCAGTGCACATTTACAGCGCCAGCTGGGGCCCGGATGATGATGGCAAGACT  
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 GCTCTGTGTTTGGTGGCATCTGGAAATGGTGGAAAGGAGCAAAGACCACTGCTCCTGTGATGGTACAC  
 CAACAGCATCTACCCATCTCCATCAGCAGCACTGCAGAAAGCGGAAAGAAACCTTGGTACCTGGAAGAG  
 TGTTCAACAGCTGGCCACAACCTACAGCAGCGGGAGTCTACGATAAGAAAAATCATCACTACAGATC  
 TGAGCAGCGTTGCACGGACAACCACTGGGACGTGAGCCTCAGCCCCATGGCTGCAGGCATCTTGC  
 GCTGGCCCTGGAAGCCAATCCGTTTCTGACCTGGAGAGAGCTACAGCATGTTATTGTGAGGACTTCCCGT  
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 GTGTGTGGAGAGCACAGACCCGACAAATCAAGACAATCCGCCCTAACAGTGCAGTGCAGTCCATCTACAAA  
 GCTTCAGGCTGCTCGGATAACCCCAACCCGATGTCAACTACCTGGAGCAGCTGTTGTGCGCATCACCA  
 TCACCCACCCAGGAGAGGAGACCTGGCCATCTACCTGACCTCGCCCTCTGGAAGTGGTCTCAGCTTTT  
 GGCCAACAGGCTATTTGATCACTCCATGGAAGGATTCAAAAAGTGGGAGTTCATGACCATTATTGCTGG  
 GGAGAAAGAGCTGCTGGTACTGGTCCCTGAAGTTTATGATACTCCCTCTCAGTAAGGAACTTTAAGA  
 CTCAGGTAATGAAAGAATGGTCTTTGGTCCCTACGGCACCTCCGTGCAGCCATATTACCAACCAA  
 TGAATTTCCGAAAGTGAACGGTTCCGCTATAGCCGAGTTGAAGACCCACAGACGACTATGGCACAGAG  
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 CTGTAGTATCAGCTATTACTTTGACCACTCTTCAGAGAATGGATACAAATCCTGCAAAAAATGTGATATC  
 AGTTGTTTGCAGTGAATGGCCAGGATTCAGAAGTGTACAAGCTGCCCTAGTGGGTATCTCTTAGACT  
 TAGGAATGTGCAAAATGGGAGCCATTTGCAAGGATGCAACGGAAGAGTCTGGCGGAAGGAGGCTTCTG  
 TATGCTTGTGAAAAAGAACAATCTGTGCCAACGGAAGTCTTCAACAACCTTGTGCAAAAACATGTACA  
 TTCAAGGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG204094 representing NM\_006200  
 Red=Cloning site Green=Tags(s)

MGWGRCCCPGRLLDLCVLLALLGGCLLPVCRTRVYTNHWAVKIAGGFPEANRIASKYGFINIGQIGALKD  
 YYHFYHSRTIKRSVISSRGTHSFISMPEKVEVIQQQVVKKRTKRDYDFSRAQSTYFNDPKWPSMWYMHCS  
 DNTHPCQSDMNIEGAWKRGYTGKNIIVTILDDGIERTHPDLMQNYDALASCDVNGNDLDPMPRYDASNEN  
 KHGTRCAGEVAAAANNSHCTVGI AFNAKIGGVRMLDGDVDTMVEAKSVSFNPQHVIYSASWGPDDDGKT  
 VDGPAPLTRQAFENGVRMGRRGLGSVFVWASNGGRSKDHCSCDGYTNSIYITISISSTAESGKPKWYLEE  
 CSSTLATTYSSGESYDKKIITDRLRQRCTDNHTGTSASAPMAAGIALALEANPFLTWRDVQHVIVRTSR  
 AGHLNANDWKTNAAGFKVSHLYGFLMDAEAMVMEAEKWTTVPRQHVCVESTDRQIKTIRPNSAVRSIYK  
 ASGCSNDPNRHVNYLEHVVVVRIITHPRRGLAIYLTSPSGTRSQLLANRLFDSMEGFKNWEFMTIHCW  
 GERAAGDWLVEVYDTPSQLRNFKTPGKLEWSLVLYGTSVQPYSPTEFPKVERFRYSRVEDPTDDYGTE  
 DYAGPCDPECSEVGDGPGPDHCNDCLHYYYLKNNTRICVSSCPPGHYHADKKRCKCAPNCESCFGSH  
 GDQCMSCKYGYFLNEETNSCVTHCPDGSYQDTKKNLCKKSENCKTCTEFHNCTE CRDGLSLQGSRCVSVS  
 CEDGRYFNGQDCQCHRFCATCAGAGADGCINCTEGYFMEDGRCVQSCSISYYFDHSSSENGYKSKKCDI  
 SCLTCNGPFGKNTSCPSGYLLDLGMCQMGAIKDATEESWAEGGFCMLVKKNNLCQRKVLQQLCCKTCT  
 FQG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

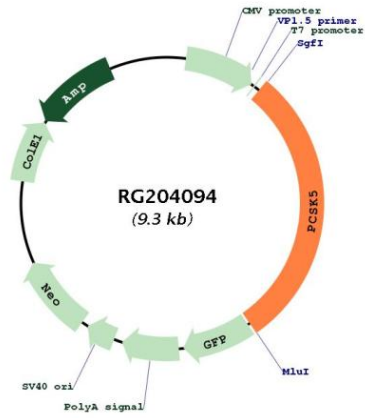
Cloning Scheme:



ACCN: NM\_006200

<b>ORF Size:</b>	2739 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_006200.6</a>
<b>RefSeq Size:</b>	3299 bp
<b>RefSeq ORF:</b>	2742 bp
<b>Locus ID:</b>	5125
<b>UniProt ID:</b>	<a href="#">Q92824</a>
<b>Cytogenetics:</b>	9q21.13
<b>Domains:</b>	Peptidase_S8, P_proprotein, FU
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Gene Summary:</b>	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. It then sorts to the trans-Golgi network where a second autocatalytic event takes place and the catalytic activity is acquired. This encoded protein is widely expressed and one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It mediates posttranslational endoproteolytic processing for several integrin alpha subunits and is thought to process prorenin, pro-membrane type-1 matrix metalloproteinase and HIV-1 glycoprotein gp160. Alternative splicing results in multiple transcript variants, some of which encode distinct isoforms, including a protease packaged into dense core granules (PC5A) and a type 1 membrane bound protease (PC5B). [provided by RefSeq, May 2014]

Product images:



Circular map for RG204094