

## Product datasheet for **RG217415**

### **PACE4 (PCSK6) (NM\_138322) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PACE4 (PCSK6) (NM_138322) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCSK6
Synonyms:	PACE4; SPC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217415 representing NM\_138322  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTCCGCGCGCGCCGCTGCGCCCGGGCCCGCGCGCCCGGGCCGCGCCCGCCACCGACACCG  
 CCGCGGGCGCGGGGGCGCGGGGGCGCGGGGGCGCGGGGGCCGGTTCCGCGCGCTCGCGCGCG  
 TCCTGGCGCTGGCTGCTGCTGCTGGCGCTGCCTGCCGCTGCTCCGCGCCCGCGCGCCCGCTAC  
 ACCAACCACTGGGCGGTGCAAGTCTGGGCGGCCCGCGGAGGCGGACCGGTGGCGGGCGCACGGGT  
 ACCTCAACTTGGGCCAGATTGGAACCTGGAAGATTACTACATTTTTATCACAGCAAACCTTTAAAG  
 ATCAACCTTGAGTAGCAGAGGCCCTCACACCTTCTCAGAATGGACCCAGGTGAAATGGCTCCAGCAA  
 CAGGAAGTGAACGAAGGTGAAGAGACAGGTGCGAAGTGACCCGAGGCCCTTTACTTCAACGACCCCA  
 TTTGGTCCAACATGTGGTACCTGCATTGTGGCGACAAGAAGAGTGCCTGCCGGTCCGAAAATGAATGTCCA  
 GGCAGCGTGAAGAGGGCTACACAGAAAAAACGTGGTGGTACCATCCTTGATGATGGCATAGAGAGA  
 AATCACCTGACCTGGCCCAAATTATGATTCTACGCCAGCTACGACGTGAACGCAATGATTATGACC  
 CATCTCCACGATATGATGCCAGCAATGAAATAAACACGGCACTCGTTGTGCGGGAGAAGTTGCTGCTTC  
 AGCAAAACAATTCCTACTGCATCGTGGGCATAGCGTACAATGCCAAAATAGGAGGCATCCGCATGCTGGAC  
 GGCGATGTCACAGATGTGGTCGAGGCAAAGTGCCTGGGCATCAGACCCAACTACATCGACATTTACAGTG  
 CCAGCTGGGGGCCGACGACGACGGCAAGACGGTGGACGGGCCCGGGCCGACTGGCTAAGCAGGCTTTTCA  
 GTATGGCATTAAAAAGGGCCGCGAGGCCCTGGGCTCCATTTTCGCTGGGCATCTGGGAATGGCGGGAGA  
 GAGGGGGACTACTGCTCGTGGATGGCTACACCAACAGCATCTACACCATCTCCGTCAGCAGCGCCACCG  
 AGAATGGCTACAAGCCCTGGTACCTGGAAGAGTGCCTCCACCCTGGCCACCCTACAGCAGTGGGGC  
 CTTTTATGAGCGAAAAATCGTCACCACGGATCTGCGTCAGCGCTGTACCGATGGCCACACTGGGACCTCA  
 GTCTCTGCCCCATGGTGGCGGCATCATCGCCTTGGCTCTAGAAGCAAACAGCCAGTTAACCTGGAGGG  
 ACGTCCAGCACCTGCTAGTGAAGACATCCCGCGGCCACCTGAAAGCGAGCGACTGGAAGTGAACGG  
 CGCGGGTCATAAAGGTGCGGCAGTGGCCTTCTGGTGGACCATTGGGTGGCCCTGGAATGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG217415 representing NM\_138322  
 Red=Cloning site Green=Tags(s)

MPPRAPPAPGPRPPRAAAATDTAAGAGGAGGAGGAGGPGFRPLAPRPWRLLLLLPAACSAPPPRPVY  
 TNHWAQVQLGGPAEADRVAAAHGYNLQIGNLEDYYHFYHSKTFKRSTLSSRGPHTFLRMDPQVKWLQQ  
 QEVKRRVKRQVRSDPQALYFNDP IWSNMWYLHCGDKNSRCRSEMNVQAAWKRGYTGKNVVVITLDDGIER  
 NHPDLAPNYDSYASYDVNGNDYDPSRYDASNENKHGTRCAGEVAASANNYSYCVIYNAKIGGIRMLD  
 GDVTDVVEAKSLGIRPNYIDIYSASWGPDDDGKTVDGPRLAKQAFEYGIKKGRQLGSIYFVWASGNGGR  
 EGDYCSGDYNSIYTIYSSATENGYKPWYLEECASTLATTYSSGAFYERKIVTTDLRQRCTDGHGTGS  
 VSAPMVAGIIALALEANSQLTWRDVQHLLVKTSRPAHLKASDWKVNAGHGKAAVAFWWTIGWPWNV

**TRTRPLE** – GFP Tag – V

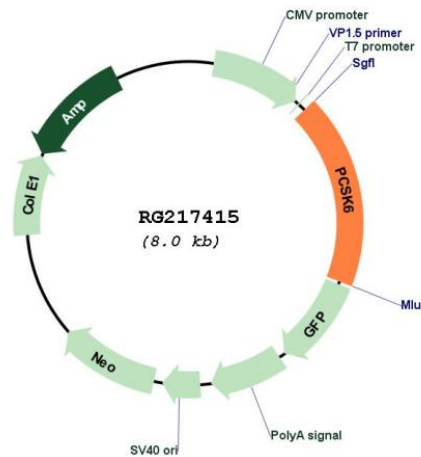
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_138322

ORF Size: 1461 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).

<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_138322.4</a>
<b>RefSeq Size:</b>	2302 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	5046
<b>UniProt ID:</b>	<a href="#">P29122</a>
<b>Cytogenetics:</b>	15q26.3
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Gene Summary:</b>	<p>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 the trans-Golgi network where a second autocatalytic event takes place and the catalytic activity is acquired. The encoded protease is constitutively secreted into the extracellular matrix and expressed in many tissues, including neuroendocrine, liver, gut, and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. Some of its substrates include transforming growth factor beta related proteins, proalbumin, and von Willebrand factor. This gene is thought to play a role in tumor progression and left-right patterning. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Feb 2014]</p>