

Product datasheet for **SC314355**

PACE4 (PCSK6) (NM_138325) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACE4 (PCSK6) (NM_138325) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCSK6
Synonyms:	PACE4; SPC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



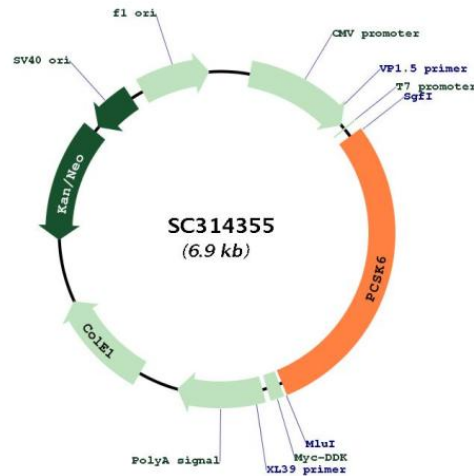
[View online »](#)

Fully Sequenced ORF: >SC314355 representing NM_138325.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCCGCGCGCCCGCTGCGCCCGGGCCCCGGCCCGCCGGGCGCCGCCGCCACCGACACC
GCCGCGGGCGCGGGGGCGCGGGGGCGCGGGGGCGCCGGCGGGCCGGGTTCCGGCCGCTCGCGCCG
CGTCCCTGGCGCTGGCTGCTGCTGCTGGCGCTGCCGCTGCTCCGGCCCCCGCCGCGCCCGTTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_138325

Insert Size: 1995 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_138325.3](#)

RefSeq Size: 2343 bp

RefSeq ORF: 1995 bp

Locus ID: 5046

UniProt ID: [P29122](#)

Cytogenetics: 15q26.3

Domains:	Peptidase_S8, P_proprotein
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	73 kDa
Gene Summary:	<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> <p>Transcript Variant: This variant (6) lacks multiple 3' exons and uses an alternate 3' terminal exon, compared to variant 1. This results in a shorter isoform (f) that has a distinct C-terminus, compared to isoform PACE4-AI.</p>