

Product datasheet for **SC315638**

PACE4 (PCSK6) (NM_002570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACE4 (PCSK6) (NM_002570) Human Untagged Clone
Tag:	Tag Free
Symbol:	PACE4
Synonyms:	PACE4; SPC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_002570 edited
 ATGCCTCCGCGCGCGCCGCTGCGCCCGGGCCCGCGCCGCCCGGGCCGCGCCGCC
 ACCGACACCGCCGCGGGCGCGGGGGCGCGGGGGCGCGGGGGCGCGGGGGCCGCGGGCCCGGG
 TTCCGGCCGCTCGCGCCGCTCCTGGCGCTGGCTGCTGCTGGCGCTGCCTGCCGCC
 TGCTCCGCGCCCCCGCGCGCCCGTCTACACCAACCACTGGGCGGTGCAAGTGTGGG
 GGCCCGGGCGAGGCGGACCGCGTGGCGGGCGCGACGGTACCTCAACTGGGCCAGATT
 GGAAACCTGGAAGATTACTACCATTTTTATCACAGCAAAACCTTTAAAAGATCAACCTTG
 AGTAGCAGAGGCCCTCACACCTTCTCAGAATGGACCCCAAGGTGAAATGGCTCCAGCAA
 CAGGAAGTGAAACGAAGGGTGAAGAGACAGGTGCGAAGTGACCCGAGGCCCTTTACTTC
 AACGACCCCATTTGGTCCAACATGTGGTACCTGCATTGTGGCGACAAGAACAGTCGCTGC
 CGGTGGAAATGAATGTCCAGGCAGCGTGAAGAGGGGCTACACAGGAAAAACGTGGT
 GTCACCATCCTTGATGATGGCATAGAGAGAAATCACCTGACCTGGCCCCAAATTATGAT
 TCCTACGCCAGCTACGACGTGAACGGCAATGATTATGACCCATCTCCACGATATGATGCC
 AGCAATGAAAATAAACACGGCACTCGTTGTGCGGAGAAGTTGCTGCTTACAGCAAAAT
 TCCTACTGCATCGTGGGCATAGCGTACAATGCCAAAATAGGAGGCATCCGCATGTGGAC
 GCGGATGTCACAGATGTGGTCGAGGCAAAGTCGCTGGGCATCAGACCCAACTACATCGAC
 ATTTACAGTGCCAGCTGGGGCCGGACGACGACGGCAAGACGGTGGACGGGCCCGGCCGA
 CTGGCTAAGCAGGCTTTGAGTATGGCATTAAAAGGGCCGCGAGGGCCTGGGCTCCATT
 TTCGTCTGGGCATCTGGGAATGGCGGGAGAGGGGGACTACTGCTCGTGCATGGCTAC
 ACCAACAGCATCTACACCATCTCCGTGACGAGCCACCAGAGAATGGCTACAAGCCCTGG
 TACCTGGAAGAGTGTGCCTCCACCCTGGCCACCACCTACAGCAGTGGGGCCTTTTATGAG
 CGAAAAATCGTCACCACGGATCTGCGTCAGCGCTGTACCGATGGCCACACTGGGACCTCA
 GTCTCTGCCCCCATGGTGGCGGGCATCATCGCCTTGCTCTAGAAGCAAACAGCCAGTTA
 ACCTGGAGGGACGTCAGCACCTGCTAGTGAAGACATCCCGGCCGCCACCTGAAAGCG
 AGCGACTGGAAGTGAACGGCGCGGGTCAAAAGTTAGCCATTTCTATGGATTTGGTTTG
 GTGGACGAGAAGCTCTCGTTGTGGAGGCAAAGAAGTGGACAGCAGTGCCATCGCAGCAC
 ATGTGCGTGGCCGCTCGGACAAGAGACCCAGGAGCATCCCTTATGTCAGGTGCTGCGG
 ACTACGGCCCTGACCAGCGCCTGCGCGGAGCACTCGGACCAGCGGGTGGTCTACTTGGAG
 CACGTGGTGGTTCGCACCTCCATCTCACACCCACGCCGAGGAGACCTCCAGATCTACCTG
 GTTTCTCCCTCGGAACCAAGTCTCAACTTTTGGCAAAGAGTTGCTGGATCTTTCCAAT
 GAAGGGTTTACAACCTGGGAATTCATGACTGTCCACTGCTGGGGAGAAAAGGCTGAAGGG
 CAGTGGACCTTGAAATCCAAGATCTGCCATCCAGGTCCGCAACCCGGAGAAGCAAGGG
 AAGTTGAAAGAATGGAGCCTCATACTGTATGGCACAGCAGACACCCGTACCACACCTTC
 AGTGCCCATCAGTCCCGCTCGCGGATGCTGGAGCTCTCAGCCCCAGAGCTGGAGCCACCC
 AAGGCTGCCCTGTACCCTCCAGGTGGAAGTTCTGAAGATGAGGAAGATTACACAGCT
 CAATCCACCCAGGCTCTGCTAATTTTTACAGACCAGTGTGTGCCATCCGGAGTGTGGT
 GACAAAGGCTGTGATGGCCCAATGCAGACCAGTGCTTGAAGTGGTCCACTTCAGCCTG
 GGGAGTGTCAAGACCAGCAGGAAGTGCCTGAGTGTGTGCCCTTGGGCTACTTTGGGGAC
 ACAGCAGCAAGACGCTGTGCGCGGTGCCACAAGGGGTGTGAGACCTGCTCCAGCAGAGCT
 GCGACGCAAGTGCCTGTCTTGGCCGCGGGTTCTATCACCACCAGGAGATGAACACCTGT
 GTGACCCTCTGTCTGCAGGATTTTATGCTGATGAAAGTCAAGAAAATTGCCTTAAATGC
 CACCCAAGCTGTAAAAGTGCCTGGATGAACCTGAGAAATGTAAGTGTCTGTAAGAAGGA
 TTCAGCCTTGACGGGGCAGCTGCATTCTGACTGTGAGCCAGGCACCTACTTTGACTCA
 GAGCTGATCAGATGTGGGAATGCCATCACACCTGCGGAACCTGCGTGGGGCCAGGCAGA
 GAAGAGTGCATTCAGTGTGCGAAAACTCCACTTCCACGACTGGAAGTGTGTGCCAGCC
 TGTGGTGAAGGCTTCTACCCAGAAGAGATGCCGGCTTGGCCACAAAGTGTGTGCAAGG
 TGTGACGAGAAGTCTTGTGAGCTGTGACGGCTCCAGCAGGAAGTGTAGCAGGTGTAAGACG
 GGCTTACACAGCTGGGGACCTCCTGCATCACCACACACGTCAGCAACGCTGACGAG
 ACATTCTGCGAGATGGTGAAGTCCAACCGCTGTGCGAACGGAAGCTCTTCATTACGTT
 TGCTGCCGCACGTGCCTCCTGGCCGGTAA

Restriction Sites: Please inquire

ACCN:	NM_002570
Insert Size:	4300 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_002570.3 , NP_002561.1
RefSeq Size:	4559 bp
RefSeq ORF:	2910 bp
Locus ID:	5046
UniProt ID:	P29122
Cytogenetics:	15q26.3
Protein Families:	Druggable Genome, Protease, Secreted Protein

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 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the predominant isoform (PACE4-A1, also known as PACE4 and PACE4-A).