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Product datasheet for RC217311

PACE4 (PCSK6) (NM_138325) Human Tagged ORF Clone

Product data:

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

View online »

ORF Nucleotide Sequence:

>RC217311 representing NM_138325
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCCGCGCGCGCCGCCTGCGCCCGGGCCCCGGCCGCCGCCCCGGGCCGCCGCCGCCACCGACACCG
CCGCGGGCGCGGGGGGCGCGGGGGGCGCGGGGGGCGCCGGCGGGCCCGGGTTCCGGCCGCTCGCGCCGCG
TCCCTGGCGCTGGCTGCTGCTGCTGGCGCTGCCTGCCGCCTGCTCCGCGCCCCCGCCGCGCCCCGTCTAC
ACCAACCACTGGGCGGTGCAAGTGCTGGGCGGCCCGGCCGAGGCGGACCGCGTGGCGGCGGCGCACGGGT
ACCTCAACTTGGGCCAGATTGGAAACCTGGAAGATTACTACCATTTTTATCACAGCAAAACCTTTAAAAG
ATCAACCTTGAGTAGCAGAGGCCCTCACACCTTCCTCAGAATGGACCCCCAGGTGAAATGGCTCCAGCAA
CAGGAAGTGAAACGAAGGGTGAAGAGACAGGTGCGAAGTGACCCGCAGGCCCTTTACTTCAACGACCCCA
TTTGGTCCAACATGTGGTACCTGCATTGTGGCGACAAGAACAGTCGCTGCCGGTCGGAAATGAATGTCCA
GGCAGCGTGGAAGAGGGGCTACACAGGAAAAAACGTGGTGGTCACCATCCTTGATGATGGCATAGAGAGA
AATCACCCTGACCTGGCCCCAAATTATGATTCCTACGCCAGCTACGACGTGAACGGCAATGATTATGACC
CATCTCCACGATATGATGCCAGCAATGAAAATAAACACGGCACTCGTTGTGCGGGAGAAGTTGCTGCTTC
AGCAAACAATTCCTACTGCATCGTGGGCATAGCGTACAATGCCAAAATAGGAGGCATCCGCATGCTGGAC
GGCGATGTCACAGATGTGGTCGAGGCAAAGTCGCTGGGCATCAGACCCAACTACATCGACATTTACAGTG
CCAGCTGGGGGCCGGACGACGACGGCAAGACGGTGGACGGGCCCGGCCGACTGGCTAAGCAGGCTTTCGA
GTATGGCATTAAAAAGGGCCGGCAGGGCCTGGGCTCCATTTTCGTCTGGGCATCTGGGAATGGCGGGAGA
GAGGGGGACTACTGCTCGTGCGATGGCTACACCAACAGCATCTACACCATCTCCGTCAGCAGCGCCACCG
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CCTTAGTGCAGGTGCTGCGGACTACGGCCCTGACCAGCGCCTGCGCGGAGCACTCGGACCAGCGGGTGGT
CTACTTGGAGCACGTGGTGGTTCGCACCTCCATCTCACACCCACGCCGAGGAGACCTCCAGATCTACCTG
GTTTCTCCCTCGGGAACCAAGTCTCAACTTCTGGCAAAGAGGTTGCTGGATCTTTCCAATGAAGGGTTTA
CAAACTGGGAATTCATGACTGTCCACTGCTGGGGAGAAAAGGCTGAAGGGCAGTGGACCTTGGAAATCCA
AGATCTGCCATCCCAGGTCCGCAACCCGGAGAAGCAAGGTGATCTTGAGACTCCTGTTGCAAATCAACTG
ACCACAGAAGAGAGGTTCGTTTCCACACTCTCGATTCTGTTCCATTGGTCTGTATATCTATCTTGGAGTC
AGTACCATATTGTTTTGATCACTGTAGCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217311 representing NM_138325
Red=Cloning site Green=Tags(s)

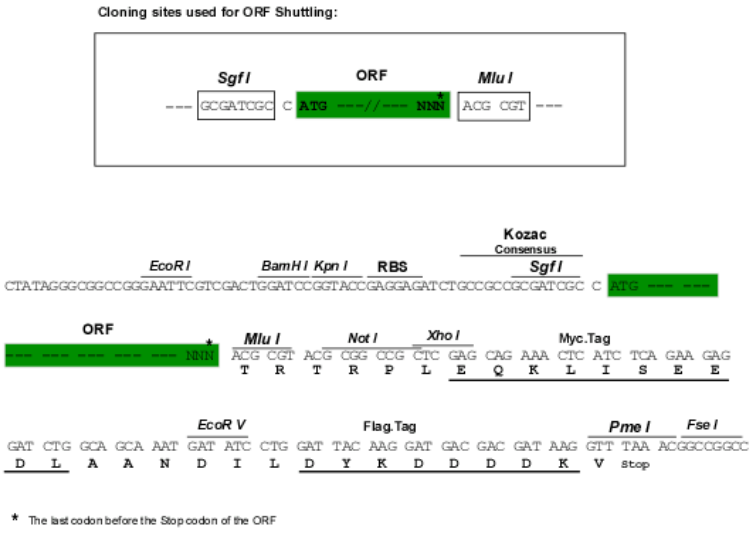
MPPRAPPAPGPRPPPRAAAATDTAAGAGGAGGAGGAGGPGFRPLAPRPWRWLLLLALPAACSAPPPRPVY
TNHWAVQVLGGPAEADRVAAAHGYLNLGQIGNLEDYYHFYHSKTFKRSTLSSRGPHTFLRMDPQVKWLQQ
QEVKRRVKRQVRSDPQALYFNDPIWSNMWYLHCGDKNSRCRSEMNVQAAWKRGYTGKNVVVTILDDGIER
NHPDLAPNYDSYASYDVNGNDYDPSPRYDASNENKHGTRCAGEVAASANNSYCIVGIAYNAKIGGIRMLD
GDVTDVVEAKSLGIRPNYIDIYSASWGPDDDGKTVDGPGRLAKQAFEYGIKKGRQGLGSIFVWASGNGGR
EGDYCSCDGYTNSIYTISVSSATENGYKPWYLEECASTLATTYSSGAFYERKIVTTDLRQRCTDGHTGTS
VSAPMVAGIIALALEANSQLTWRDVQHLLVKTSRPAHLKASDWKVNGAGHKVSHFYGFGLVDAEALVVEA
KKWTAVPSQHMCVAASDKRPRSIPLVQVLRTTALTSACAEHSDQRVVYLEHVVVRTSISHPRRGDLQIYL
VSPSGTKSQLLAKRLLDLSNEGFTNWEFMTVHCWGEKAEGQWTLEIQDLPSQVRNPEKQGDLETPVANQL
TTEERFVSTLSILFHWSVYLSWSQYHIVLITVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8072_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138325

ORF Size: 1992 bp

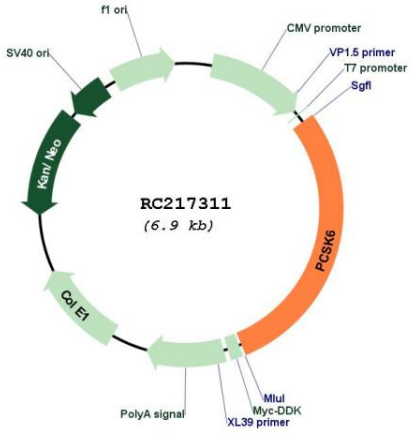
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

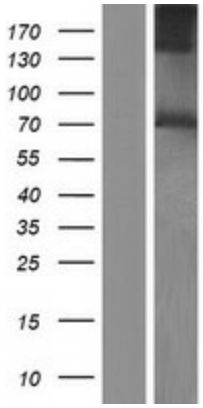
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_138325.3, NP_612198.2
RefSeq Size:	2358 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:	67 kDa
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]

Product images:



Circular map for RC217311



Western blot validation of overexpression lysate (Cat# [LY408706]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217311 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).