

Product datasheet for **RG223928**

PACE4 (PCSK6) (NM_138324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACE4 (PCSK6) (NM_138324) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PACE4
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:

>RG223928 representing NM_138324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTCCGCGCGCGCCGCTGCGCCCGGGCCCGCGCGCCCGGGCCGCGCCGCCACCGACACCG
 CGCGGGCGCGGGGGCGCGGGGGCGCGGGGGCGCGGGGGCCGGTTCCGGCCGCTCGCGCCGCG
 TCCTGGCGCTGGCTGCTGCTGCTGCGCTGCCTGCCGCTGCTCCGCGCCCGCGCGCCCGCTAC
 ACCAACCACTGGGCGGTGCAAGTCTGGGCGGCCGCGGAGGCGGACCGGTGGCGGCGCGCACGGGT
 ACCTCAACTTGGGCCAGATTGGAACCTGGAAGTACTACCATTTTTATCACAGAAAACCTTTAAAG
 ATCAACCTTGAGTAGCAGAGGCCCTCACACCTCCTCAGAATGGACCCCAAGTGAATGGCTCCAGCAA
 CAGGAAGTGAACGAAGGTGAAGAGACAGGTGCGAAGTACCCGACGGCCCTTACTTCAACGACCCCA
 TTTGGTCCAACATGTGGTACCTGCATTGTGGCGACAAGAACAGTGCCTGCCGGTCGGAAATGAATGTCCA
 GGCAGCGTGAAGAGGGGCTACACAGAAAAAACGTGGTGGTACCATCCTTGATGATGGCATAGAGAGA
 AATCACCCCTGACCTGGCCCCAAATTATGATTCCTACGCCAGCTACGACGTGAACGGCAATGATTATGACC
 CATCTCCACGATATGATGCCAGCAATGAAAATAAACACGGCACTCGTTGTGCGGGAGAAGTTGCTGCTTC
 AGCAAAACAATTCCTACTGCATCGTGGGCATAGCGTACAATGCCAAAATAGGAGGCATCCGCATGCTGGAC
 GGCGATGTACAGATGTGGTCGAGGCAAAGTGCCTGGGCATCAGACCCAACTACATCGACATTTACAGTG
 CCAGCTGGGGGCCGACGACGACGGCAAGACGGTGGACGGGCCCGGGCCGACTGGCTAAGCAGGCTTTGGA
 GTATGGCATTAAAAAGGGCCGCGCAGGGCCTGGGCTCCATTTTCGTCGCGCATCTGGGAATGGCGGGAGA
 GAGGGGGACTACTGCTCGTGCATGGCTACACCAACAGCATACACCATCTCCGTCAGCAGCGCCACCG
 AGAATGGCTACAAGCCCTGGTACCTGGAAGAGTGTGCTCCACCCTGGCCACCCTACAGCAGTGGGGC
 CTTTTATGAGCGAAAAATCGTCACCACGGATCTGCGTCAGCGCTGTACCGATGGCCACACTGGGACCTCA
 GTCTCTGCCCCCATGGTGGCGGCATCATCGCCTTGGCTCTAGAAGCAAAACAGCCAGTTAACCTGGAGGG
 ACGTCCAGCACCTGCTAGTGAAGACATCCCGCCGGCCCACTGAAAGCGAGCGACTGGAAGTGAACGG
 CGCGGGTCATAAAGTTAGCCATTTCTATGGATTTGGTTTGGTGGACGAGAAGCTCTCGTTGTGGAGGCA
 AAGAAGTGGACAGCAGTCCATCGCAGCACATGTGTGGCCGCTCGGACAAGAGACCCAGGAGCATCC
 CCTTAGTGCAGGTGCTGCGGACTACGGCCTGACCAGCGCTGCGCGGAGCACTCGGACCAGCGGGTGGT
 CTACTTGGAGCACGTGGTGGTTCGCACCTCCATCTCACACCCACGCCGAGGAGACCTCCAGATCTACCTG
 GTTTCTCCCTCGGAACCAAGTCTCAACTCTGGCAAAGAGGTTGCTGGATCTTTCCAATGAAGGGTTTA
 CAAACTGGGAATTCATGACTGTCCACTGCTGGGAGAAAAGGCTGAAGGGCAGTGGACCTTGGAAATCCA
 AGATCTGCCATCCAGGTCCGCAACCCGGAGAAGCAAGGTGATCTTGAGACTCCTGTTGCAATCAACTG
 ACCACAGAAGAGAGGGAACCTGGACTAAAAACAGTGTCCGGTGGCAGATTGAACAAGAGCTTTGG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223928 representing NM_138324
 Red=Cloning site Green=Tags(s)

MPPRAPPAPGPRPPRAAAATDTAAGAGGAGGAGGAGGPGFRPLAPRPWRWLLLLALPAACSAPPPRPVY
 TNHWAVQVLGGPAEADRVAAAHGYLNLGQIGNLEDYYHFYHSKTFKRSTLSSRGPHTFLRMDPQVKWLQQ
 QEVKRRVRKQVRSDPQALYFNDP IWSNMWYLHCGDKNSRCRSEMNVQAAWKRGYTGKNNVVITLDDGIER
 NHPDLAPNYDSYASYDVNGNDYDPSPRYDASNENKHGTRCAGEVAASANNYSYCVIGIAYNAKIGGIRMLD
 GDVTDVVEAKSLGIRPNYIDIYSASWGPDDDGKTVDGPGRLAKQAFEYGIKKGRQLGSIYFVWASGNGGR
 EGDYCSDDGYTNSIYTISSVSSATENGYKPWYLEECASTLATTYSSGAFYERKIVTTDLRQRTDGHTGTS
 VSAPMVAGIIALALEANSQLTWRDVQHLLVKTSRPAHLKASDWKVNAGHKVSHFYGFGLVDAEALVVEA
 KKWTAVPSQHMCAASDKRPRSIPVQLRRTALTSAEHSQQRVVYLEHVVVVRTSISHPRRDLQIYL
 VSPSGTKSQLLAKRLDLSNEGFTNWEFMTVHCWGEKAEGQWTLIEIQDLPQVRNPEKQGDLETPVANQL
 TTEEREPLKHFVFRWQIEQELW

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_138324

ORF Size: 1956 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_138324.2](#), [NP_612197.1](#)

RefSeq Size: 3254 bp

RefSeq ORF: 1959 bp

Locus ID: 5046

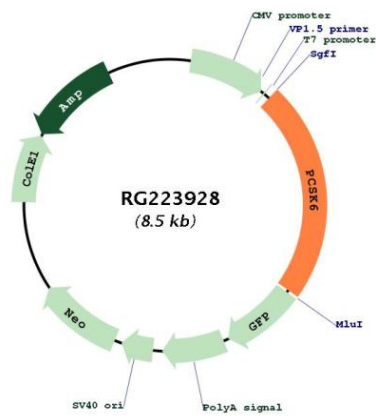
UniProt ID: [P29122](#)

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]

Product images:



Circular map for RG223928