

## Product datasheet for **MC220162**

### **Pcsk4 (NM\_008793) Mouse Untagged Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Pcsk4 (NM_008793) Mouse Untagged Clone   |
| Tag:                      | Tag Free                                 |
| Symbol:                   | Pcsk4                                    |
| Synonyms:                 | AI647044; L21221; NEC 3; NEC3; PC4; SPC5 |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**Fully Sequenced ORF:** >MC220162 representing NM\_008793  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCGGCCCTCCAGACAGAGCTGTGGCTGGGTCTGACTTTGACTTTGGCCCTCCTGGCTGTGAGGTGGG  
 CCTCAGCCCAGGCCCATCTATGTGAGCAGCTGGGCAGTGCGGGTGACCAAAGGTTACCAGGAAGCTGA  
 GCGCCTGGCCCGTAAATTTGGCTTCGTCAACCTGGGACAGATCTTCCCTGACGACCAAGTATTTCCATCTG  
 CGGCACCGGGGTGTGGCCAGCAGTCCCTGACTCCACACTGGGGCCATCGTCTACGACTGAAGAAAGATC  
 CCAAGGTGCGCTGGTTTGGAGCAGCAGCTTTGAGGCGCGGGTGAAACGCTCCCTGGTGGTGGCCACAGA  
 CCCCTGGTTTTCAAGCAGTGGTACATGAACAAGGAGATACAACAAGATCTCAACATCCTAAAGGCTTGG  
 AACCAGGACTGACCGGCCGGGAGTGGTGATTTCCATCTTGACGATGGCATTGAGAAAGACCACCCGG  
 ACCTCTGGGCTAATTATGACCTCTGGCCAGCTATGACTTCAACGACTATGACCCAGACCCCGAGCTCG  
 CTACACACCCACGATGAGAACCAGATGGAACGCGCTGTGCTGGGGAGGTGTCTGCCACAGCTAACAAC  
 GGTTTCTGTGGTGCCGGTGTGGCCTTCAATGCTAGAAATTGGAGGCGTGCGCATGTTGGATGGAGCCATCA  
 CTGACATCGTGGAGGCTCAGTCCCTCAGCTGCAGCCGCAACACATACATCTATAGCGCCAGCTGGGG  
 CCCGGAGGATGATGGTCGACGGTGGACGGACCTGGCCTCCTCACACAGGAGGCTTCAGGCGTGGTGTA  
 ACCAAGGGCCGCCAAGGGCTGGGTACACTGTTTCATCTGGGCTCGGGAACGGTGGCCTCCATTACGACA  
 ACTGCAATTGTGACGGCTACACCAACAGCATCCACACTGTGAGTGGGAGCAGCACGCGGCAGGGTGC  
 AGTGCCCTGGTACAGCGAGGCTGTGCCCTCCACGTTTACCACACCTTCAGCAGCGGTGTGGTCAACGAC  
 CCACAGATCGTCACACGACCTGCACACAGTGCACCGACAAGCACACGGGCACCTCGGCATCTGCCC  
 CGCTGGTGTGTCATGATCGCCCTGGCCTGGAGGCCAACCCTGCTGACCTGGAGGACCTACAGCA  
 CCTGGTGGTCCGCGCGTCCAGGCCGCGCAGCTGCAGGCGGAGGACTGGAGGATCAACGGCGTGGGGCGC  
 CAAGTGAGCCACCATTATGGCTATGGGCTGTGGACGCGGGTGTGGTGGACCTGGCTCGCGTGTGGC  
 TGCCCACTAAGCCTCAGAAGAAATGTGCCATTCGGGTGGTGACACCCCCACCCCATCTGCCTCGGAT  
 GCTGGTGCCGAAGACGTGACCGCGTGTGCTGAGTGGTGCAGCGCGCCGCTCATCCGCTCGCTCGAGCAC  
 GTGCAGGTCCAGCTTTCGCTCTCTACAGCCGCGCGGGACCTGGAGATCTTCTCACCAGCCCCATGG  
 GCACGCGCTCCAGCTCGTGGCCATCAGACGTTGGATATCAGCGGCCAAGGCTACAACAAGTGGATCTT  
 CATGTCCACTCACTACTGGGATGAGGACCCGAGGGCTGTGGACCTGGGCTGGAGAATAAGGGCTAC  
 TATTTTAAACAGGAAGTCTGTACTACTACACCTGCTGTGTATGGGACGGCCAGGACATGACAGCAC  
 GGCCCCAGGCCCCCAGGTGACAGCGCGCGCGCATGTGTGAGAGGGACACAGAGGGGCTGTGCCA  
 GGAAAGTCACAGTCCCCTCTCCATCCTGGCAGGACTCTGCCTCATCTCCAGCCAGCAGTGGTGGTGGCTC  
 TACAGCCACCCACAGCAGCCAGTGACCGAAGGACAGGCCAGCTGTCAACCTCCTGTTACACCTGTGCGAG  
 CAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_008793

**Insert Size:** 1968 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).

**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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>                | <u><a href="#">NM_008793.2</a></u> , <u><a href="#">NP_032819.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq Size:</b>           | 2514 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 1968 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>              | 18551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID:</b>            | <u><a href="#">P29121</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 10 39.72 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | <p>Proprotein convertase involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues. In males, important for ADAM2 processing as well as other acrosomal proteins with roles in fertilization and critical for normal fertilization events such as sperm capacitation, acrosome reaction and binding of sperm to zona pellucida (PubMed:9192653, PubMed:16371590, PubMed:19342015, PubMed:21302280). Plays also a role in female fertility, involved in the regulation of trophoblast migration and placental development, may be through the proteolytical processing and activation of proteins such as IGF2 (By similarity). May also participate in folliculogenesis in the ovaries (PubMed:11164898).[UniProtKB/Swiss-Prot Function]</p> |