

## Product datasheet for MC203075

### Pcsk9 (NM\_153565) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pcsk9 (NM\_153565) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pcsk9  
**Synonyms:** AI415265; AI747682; FH3; HCHOLA3; Narc1; PC9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC038085

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CCACGCGTCCGGGAGTGGGGATTAAGAGGGGGGAATGTAACAGGTCCTGTTGCAGCCCAATTAGGATTT
GGGGTTTTGTCTCACTCTGAGCGTCATTTGACGCTGTCTGGGGAGGGCGAGGCCGAAACCTGATCCTTT
AGTACCGGGGCCCGTTAATGTTTAAATCAGAGAGGATCTTCCGATGGGGCTCGGGGTGGCGTGATCTCCCG
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GTTGCTTTTGAACCTTGATATTTATGCAGGGTTTGTAGTTTTTATTATGTAGTACTTTTCAGAATAAA
AGCAGCTGATGTGACTGACAAAAAAAAAAAAAAAAA
    
```

**Restriction Sites:**

RsrII-NotI

**ACCN:**

NM\_153565

**Insert Size:**

2085 bp

**OTI Disclaimer:**

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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC038085](#), [AAH38085](#)

**RefSeq Size:** 3534 bp

**RefSeq ORF:** 2085 bp

**Locus ID:** 100102

**UniProt ID:** [Q80W65](#)

**Cytogenetics:** 4 C7

**Gene Summary:** Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments. Acts via a non-proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation. Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway. Inhibits epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.[UniProtKB/Swiss-Prot Function]