

Product datasheet for **MR210088**

Pcsk9 (NM_153565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk9 (NM_153565) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcsk9
Synonyms:	AI415265; AI747682; FH3; HCHOLA3; Narc1; PC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210088 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCACCCACTGCTCTGCGTGGCTGCGGTGGCCGCTGTTGCCGCTGTTGCCGCCGCTGCTGCTGCTGT
TGCTGCTACTGTGCCCCACCGCCGCTGGTGCCAGGACGAGGATGGAGATTATGAAGAGCTGATGCTCGC
CCTCCCGTCCCAGGAGGATGGCCTGGCTGATGAGGCCGCACATGTGCCACCGCCACCTTCGCCGTTGC
TCCAAGGAGGCCTGGAGGCTGCCAGAACCTACATTGTGGTGTGATGGAGGAGACCCAGAGGCTACAGA
TTGAACAAACTGCCACCGCCTGCAGACCCGGGCTGCCCGCCGGGGCTATGTCATCAAGTTCTACATAT
CTTTTATGACCTTCCCTGGCTTCTTGGTGAAGATGAGCAGTGACCTGTTGGCCTGGCCCTGAAGTTG
CCCCATGTGGAGTACATTGAGGAAGACTCCTTTGTCTCGCCAGAGCATCCCATGGAACCTGGAGCGAA
TTATCCCAGCATGGCACCAGACAGAGGAAGACCGCTCCCCTGATGGAAGCAGCCAGGTGGAGGTGTATCT
CTTAGATACCAGCATCCAGGGTGGCCATCGGGAGATTGAGGGCAGGGTACCATCACCGACTTCAACAGC
GTGCCGAGGAGGATGGGACACGCTTCCACAGACAGGCGAGCAAGTGTGACAGCCACGGCACCCACCTGG
CAGGTGTGGTCAGCGGCCGGGATGCTGGTGTGGCCAAGGGCACAGCCTGCACAGCCTGCGTGTGCTCAA
CTGTCAAGGGAAGGGCACAGTCAGCGGCACCCATAGGCCTGGAGTTTATTCGGAAGAGTCAGCTAATC
CAGCCCTCGGGGCCACTCGTGGTTCTGCTGCCCTGGCCGGTGGGTATAGCCGCATCCTCAACGCTGCC
GCCGGCACCTGGCGAGGACTGGGGTGGTGTGTTGCAGCAGTGGGAACCTCCGGGACGACGCCTGCC
CTACTCCCAGCTTCTGCTCCAGAGTGCATCACAGTCGGGGCCACGAATGCCAGGACCGCAGTTACC
TTGGGGACTTTGGGGACTAATTTGGACGCTGTGTGGATCTTTGCCCGGGAAGGACATCATCGGAG
CGTCCAGTGACTGCAGCACATGCTTTCATGTCACAGAGTGGGACCTCACAGGCTGCTGCCACGTTGGCCG
CATTGTGGCTCGGATGCTGAGCCGGGAGCCACACTTACCCTGGCCGAGCTGCGGCAGAGGCTGATCCAC
TTCTCTACCAAAGACGTATCAACATGGCCTGGTTCCTGAGGACCAGCAGGTGCTGACCCCAACCTGG
TGGCCACTGCCCCCAGCACCATGAGACAGGCGGGCAGTGTCTGTAGGACGGTGTGGTCGGCACA
CTCGGGGCCACTCGAACAGCTACAGCTACAGCCCGCTGTGCCCGAAGAGGAGCTGCTGAGCTGCTCC
AGCTTCTCCAGGAGCGGGAGGCGTCTGGTGTGATTGGATTGAGGCCATAGGAGGCCAGCAGGTCTGCAAG
CCCTCAATGCATTTGGGGTGGGGTGTCTATGCCGTCGCGAGATGCTGCCTGGTTCGCCGTTGCCAACTG
CAGCATCCACAACCCCCTGCAGCCAGAGCTGGCCTGGAGACCCATGTCCACTGCCACCAGAAGGACCAT
GTTCTCACAGGCTGCAGCTTCCATTGGGAAGTGAAGACCTTAGTGTCCGGAGGCAGCCTGCGCTGAGGT
CCAGAGCTCAGCCTGGCCAGTGGTGGCCACAGGCGGCCAGTGTCTATGCTTCCCTGCTGCCATGCCCC
AGGGCTGGAATGCAAAATCAAGGAGCATGGGATCTCAGGTCTTTCAGAGCAGGTCAGTGTGGCCTGCGAA
GCAGGATGGACCTGACTGGATGCAATGTGCTCCCTGGGGCATCCCTCACTCTGGGAGCTACAGCGTGG
ACAACCTGTGTGGCAAGAGTCCATGACACTGCCAGAGCAGACAGGACCAGTGGAGAAGCCACAGTAGC
TGCTGCCATCTGCTGCCGGAGCCGGCTTCAGCAAAGGCTCCTGGGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210088 protein sequence
 Red=Cloning site Green=Tags(s)

MGTHCSAWLRWPLLPLLPLLLLLLLLLPTGAGAQDEGDYEELMLALPSQEDGLADEAAHVATATFRRC
 SKEAWRLPGTYIVLMEETQRLQIEQTAHRLQTRAARRGYVIVKLVHIFYDLFPGFLVKMSSDLLGLALKL
 PHVEYIEEDSFVFAQSIPWNLERIIIPAWHQTEEDRSPDGSSQVEVYLLDTSIQGAHREIEGRVTITDFNS
 VPEDGTRFHRQASKCDSHGTHLAGVVSGRDAGVAKGTSLSLRLVLCQKGTVSGTLIGLEFIRKSQLI
 QPSGPLVVLLPLAGGYSRILNAACRHLARTGVVLYAAAGNFRDDACL YSPASAPEVITVGATNAQDQPVT
 LGTLGTNFGRCVDL FAPGKDIIGASSDCSTCFMSQSGTSQAAAHVAGIVARMLSREPTLTLAELRQLIH
 FSTKDVINMAWFPEDQQVLTPNLVATLPPSTHETGGQLLCRTVWSAHSGPRTATATARCAPEEELLSCS
 SFSRSRRRGDWIEAIGGQQVCKALNAFGGEGVYAVARCCLVPRANCSIHNTPAARAGLETHVHCHQKDH
 VLTGCSFHWEVDL SVRRQPALRSRRQPGQCVGHQAASVYASCCHAPGLECKIKEHGISGPSEQVTVACE
 AGWTLTGCNVLPGASLT LGAYSVDNLCVARVHDTARADRTSGEATVAAAICCRSRPSAKASWVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153565

ORF 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 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](#)

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_153565.2](#), [NP_705793.1](#)

RefSeq Size: 3512 bp

RefSeq ORF: 2085 bp

Locus ID: 100102

UniProt ID: [Q80W65](#)

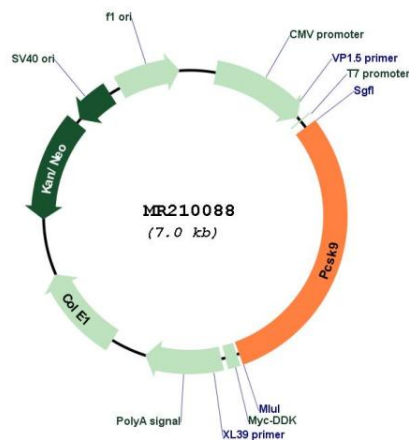
Cytogenetics: 4 C7

MW: 74.8 kDa

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]

Product images:



Circular map for MR210088