

Product datasheet for **MR231113**

Pcsk7 (NM_001281934) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcsk7 (NM_001281934) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcsk7
Synonyms:	AA959856; PC7; SPC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR231113 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAAAGGGAGGCAGAAAGTCCACACTTGGATGCCACCTGGCCCTGCCATCTGCCTCTGGCTGG
AATTAGCCATCTTCTTTCTGGTTCCCCAGGTCAATGGGCCATCAGAGGCAGGTGGCTTGACATCTTGGG
CACAGGGGGCTGAGCTGGGCCGTACATCTGGACAGCCTAGAAGGTGAGAGGAAGGAAGAGTCTGACG
CAACAGGCCGATGCTGTGGCCAGGCAGCAGGGCTTGTGAATGCTGGCGCATTGGAGAATCCAGGGGC
ACTACCTCTTTGTCCAGCCTACTGGCATAGGCAAGCCATGGAGGTGGAGGCCATGCGGCAACAGGCAGA
GGCTGTGTAGCCAGGCATGAAGCTGTGCGCTGGCACTCGGAGCAAACGCTGCTGAAGAGGGCCAAGCGC
AGTATCCACTTCAATGATCCCAAGTACCCTCAACAGTGGCACCTGAATAATCGGCGGAGCCAGGAAGAG
ACATCAATGTGACAGGTGTGTGGAGCGAAATGTAAGTGGCGTGGGGTACAGTGGTGGTGGTGGATGA
CGGAGTGAACACACCGTCCAGGACATCGACCCAACACAGTCCAGAGGGAAGTTATGACCTCAACTCT
AATGACCCAGATCCCATGCCACCCCTGATGAGGAGAATGGTAACCACCATGGGACCCGGTGTGCAGGAG
AAATTGCAGCTGTGCCAACAAACAGCTTCTGTGCAAGTGGGTGTGGCTACGGGAGCCGAATAGCAGGTAT
CCGGGTGCTGGATGGACCACTTACTGACAGTATGGAGGCTGTGGCGTTCAACAAGCACTATCAGATCAAT
GACATCTACAGCTGCAGCTGGGGCCAGATGATGATGGGAAGACAGTGGATGGTCCCTCATCAGCTCGAA
AGGCTGCCTTACAACATGGAGTGTGGCTGGTCCGAAGGCTTTGGAAGTATCTTTGTGGTTGCCAGTGG
TAATGGGGCCAGCACAATGACAACGCAACTATGATGGCTATGCCAACTCCATCTACACTGTCACCATA
GGAGCTGTGGATGAGGAGGGACGGATGCCTTTTTATGCAGAGGAGTGTGCCTCCATGCTGGCAGTCACT
TCAGTGGTGGAGACAAGATGCTCGGAGCATTGTGACCACTGACTGGGACCTTCAGAAGGGCACTGGCTG
CACTGAAGGCCACACAGGAACCTCAGCTGCAGCTCCTCTGGCAGCTGGAATGATAGCCCTCATGCTGCAG
GTGCGGCCCTGCCTCACATGGCGGGATGTACAGCACATAATTGTCTTACAGCCATCCAGTATGAAGATC
ATCATGCAGACTGGCTCACCAATGAGGCTGGCTTACGCCACAGCCATCAGCATGGTTTCGGCCTGCTCAA
CGCTTGGAGACTTGTCAATGCAGCCAAGATCTGGACATCTGTCCCTTACTTAGCCCTCATGTCAGCCCC
ATGCTGAAAGAAAATAAGGCTGTCCGAGGTCCCCCACTCTCTGGAGGTGCTATGGAATGTCAGCAGGA
CGGACCTGGAGATGTCGGGGCTGAAGACCTTGGAAACATGTGGCAGTGACAGTCTCCATCACTCACCCAGC
ACGTGGCAGCTTAGAACTGAAACTGTTTTGTCCCAGTGGCATGATGTCTTTGATCGGCGGCCCCCGCAGC
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GAGGCGTCTACAGACTGGTTATCAGGGATGTAGGAGATGAGCCGCTCCAGATGGGCATCCTCCAGCAGTG
GCAGCTGACCCTGTATGGCTCCATGTGGAGTCCAGTAGACATCAAGGACAGACAAAGTCTCTTAGAAAGT
GCTATGAGTGGAAAATACCTGCATGATGGCTTACCCTGCCTTGGCCACCTGGGCTGAAAATCCCTGAGG
AGGATGGCTACACCATTACCCTAACACACTCAAGACCTTGTGCTGGTAGGCTGCTTCACTGCTTCTG
GACTATTTACTACATGCTAGAAGTGTGCTGAGCCAGAGGAACAAGGCTTCCACCCATGGCTGCAGGAAG
GGATGTGCCCTGGGCCCCACGAAGGCAAACTCCAAGGATGCAGGGACAGCACTAGAATCAATGCCAC
TGTGCAGCAGCAAGGACCTGGATGGAGTGGATTAGAGCATGGGACTGCACAACATGATCTAGCTTCTCT
GGCCCCAGAGCTGGATTGCTCCACACCAACCCCAAGACCTGCTGCAGGGGAAGAGCGGGCAGATTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231113 protein sequence
Red=Cloning site Green=Tags(s)

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MPKGRQKVPHLDAHLGLPICLWLELAIFFLVPQVMGLSEAGGLDILGTGGLSWAVHLDLSLEGERKEESLT
QQADAVAQAAGLVNAGRIGELQGHYLFVQPTGHRQAMEVEAMRQQAEAVLARHEAVRWHSEQTLLKRAKR
SIHFNDPKYPQQWHLNRRRSPGRDINVTGVWERNVTGRGVTVVVDDGVEHTVQDIAPNYSPEGSYDLNS
NDPDPMPHPDEENGHHGTRCAGEIAAVPNNSFCVAVGVYGSRIAGIRVLDGPLTDSMEAVAFNKHYQIN
DIYSCSWGPDDDGKTVDGPHQLGKAALQHGVYAGRQGGFVAVASNGGQHNDNCNYDGYANSIYTVTI
GAVDEEGRMFPYAEECASMLAVTFSGGDKMLRSIVTTDWDLQKGTGCTEGHTGTSAAAPLAAGMIALMLQ
VRPCLTWRDVQHIIVFTAIQYEDHHADWLTNEAGFSSHQHGFGLLNAWRLVNAAKIWTSPYLAASYVSP
MLKENKAVPRSPHSLEVLWNVSRDLEMSGLKLEHVAVTVSITHPRRGSLELKLFCPSGMMSLIGAPRS
MDSDPNGFNAWTFSTVRCWGERARGVYRLVIRDVGDEPLQMGILQQWQLTLYGSMWSPVDIKDRQSLES
AMSGKYLHDGFTLPCPPGLKIPEEDGYITPNTLKTLLVVGCFVFWTIYYMLEVCLSQRNKASTHGCRK
GCCPWAPRRQNSKDAGTALESMPLECSSKDLGVDSEHGDCCTASSFLAPELDCPPHPDLLQKSGQIC
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001281934

ORF Size: 2313 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_001281934.1](#), [NP_001268863.1](#)

RefSeq Size: 4098 bp

RefSeq ORF: 2313 bp

Locus ID: 18554

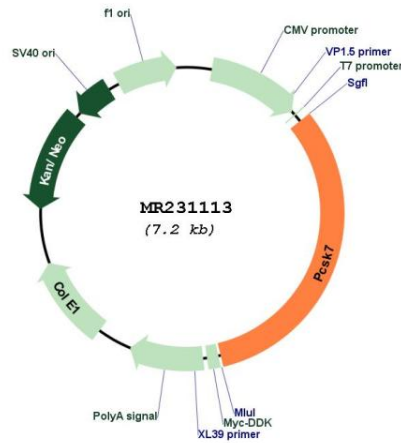
UniProt ID: [Q61139](#)

Cytogenetics: 9 25.32 cM

MW: 84.4 kDa

Gene Summary: Serine endoprotease that processes various proproteins by cleavage at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. Likely functions in the constitutive secretory pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231113