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Product datasheet for RC209109

PRSS33 (NM_152891) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRSS33 (NM_152891) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRSS33
Synonyms:	EOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209109 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGGGTTTCCTGTCTCCAGGTCCTGCTCCTTCTGGTGCTGGGAGCTGCTGGGACTCAGGGAAGGA
AGTCTGCAGCCTGCGGGCAGCCCCGCATGTCCAGTCGGATCGTTGGGGGCCGGGATGGCCGGGACGGAGA
GTGGCCGTGGCAGGCGAGCATCCAGCATCGTGGGGCACACGTGTGCGGGGGGTCGCTCATCGCCCCCCAG
TGGGTGCTGACAGCGGCGCACTGCTTCCCCAGGAGGGCACTGCCAGCTGAGTACCGCGTGCGCCTGGGGG
CGCTGCGTCTGGGCTCCACCTCGCCCCGCACGCTCTCGGTGCCCGTGCGACGGGTGCTGCTGCCCCCGGA
CTACTCCGAGGACGGGGCCCGCGGCGACCTGGCACTGCTGCAGCTGCGTCGCCCGGTGCCCCTGAGCGCT
CGCGTCCAACCCGTCTGCCTGCCCGTGCCCGGCGCCCGCCCGCCGCCCGGCACACCATGCCGGGTCACCG
GCTGGGGCAGCCTCCGCCCAGGAGTGCCCCTCCCAGAGTGGCGACCGCTACAAGGAGTAAGGGTGCCGCT
GCTGGACTCGCGCACCTGCGACGGCCTCTACCACGTGGGCGCGGACGTGCCCCAGGCTGAGCGCATTGTG
CTGCCTGGGAGTCTGTGTGCCGGCTACCCCCAGGGCCACAAGGACGCCTGCCAGGGTGATTCTGGGGGAC
CTCTGACCTGCCTGCAGTCTGGGAGCTGGGTCCTGGTGGGCGTGGTGAGCTGGGGCAAGGGTTGTGCCCT
GCCCAACCGTCCAGGGGTCTACACCAGTGTGGCCACATATAGCCCCTGGATTCAGGCTCGCGTCAGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209109 protein sequence
Red=Cloning site Green=Tags(s)

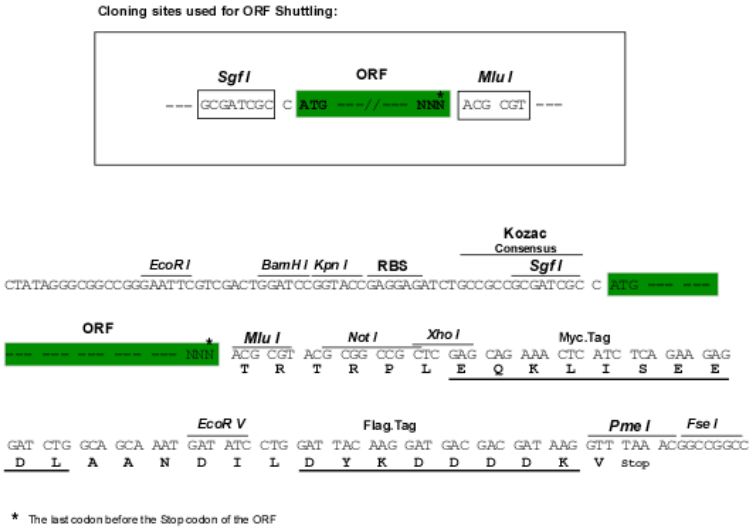
MRGVSCLQVLLLLVLGAAGTQGRKSAACGQPRMSSRIVGGRDGRDGEWPWQASIQHRGAHVCGGSLIAPQ
WVLTAAHCFPRRALPAEYRVRLGALRLGSTSPRTLSVPVRRVLLPPDYSEDGARGDLALLQLRRPVPLSA
RVQPVCLPVPGARPPPGTPCRVTGWGSLRPGVPLPEWRPLQGVRVPLLDSRTCDGLYHVGADVPQAERIV
LPGSLCAGYPQGHKDACQGDSGGPLTCLQSGSWVLVGVVSWGKGCALPNRPGVYTSVATYSPWIQARVSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6772_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152891

ORF Size: 840 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_152891.2, NP_690851.2

RefSeq Size: 1694 bp

RefSeq ORF: 843 bp

Locus ID: 260429

UniProt ID: Q8NF86

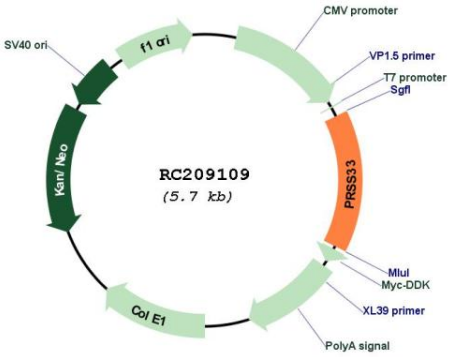
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Protease

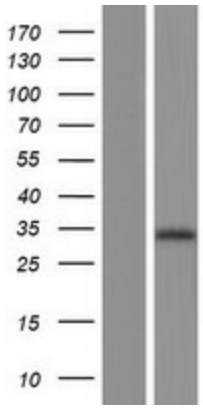
MW: 29.8 kDa

Gene Summary: Serine protease that has amidolytic activity, cleaving its substrates before Arg residues. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209109



Western blot validation of overexpression lysate (Cat# [LY407256]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209109 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).