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Product datasheet for RC202252

PRSS22 (NM_022119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRSS22 (NM_022119) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRSS22
Synonyms:	BSSP-4; hBSSP-4; SP001LA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202252 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTTTCTGGAGCGCCCCCAGCCCTGGGTGGGGGCTGTCTCGGCACCTTCACCTCCCTGCTGCTGC
TGGCGTCGACAGCCATCCTCAATGCGGCCAGGATACCTGTTCCCCCAGCCTGTGGGAAGCCCCAGCAGCT
GAACCGGGTTGTGGGCGGCGAGGACAGCACTGACAGCGAGTGGCCCTGGATCGTGAGCATCCAGAAGAAT
GGGACCCACCACTGCGCAGGTTCTCTGCTCACCAGCCGCTGGGTGATCACTGCTGCCCACTGTTTCAAGG
ACAACCTGAACAAACCATACCTGTTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAACCCTGGCTCTCG
GTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCTGTGTATTCCTGGAAGGAAGGTGCCTGTGCA
GACATTGCCCTGGTGCGTCTCGAGCGCTCCATACAGTTCTCAGAGCGGGTCCTGCCCATCTGCCTACCTG
ATGCCTCTATCCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGGAGCATCCAAGATGGAGT
TCCCTTGCCCCACCCTCAGACCCTGCAGAAGCTGAAGGTTCCTATCATCGACTCGGAAGTCTGCAGCCAT
CTGTACTGGCGGGGAGCAGGACAGGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAGGGGG
AGCGGGATGCTTGTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAGGTGGACGGCGCCTGGCTGCTGGC
CGGCATCATCAGCTGGGGCGAGGGCTGTGCCGAGCGCAACAGGCCCGGGGTCTACATCAGCCTCTCTGCG
CACCGCTCCTGGGTGGAGAAGATCGTGCAAGGGGTGCAGCTCCGCGGGCGCGCTCAGGGGGGTGGGGCCC
TCAGGGCACCGAGCCAGGGCTCTGGGGCCGCCGCGCGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202252 protein sequence
Red=Cloning site Green=Tags(s)

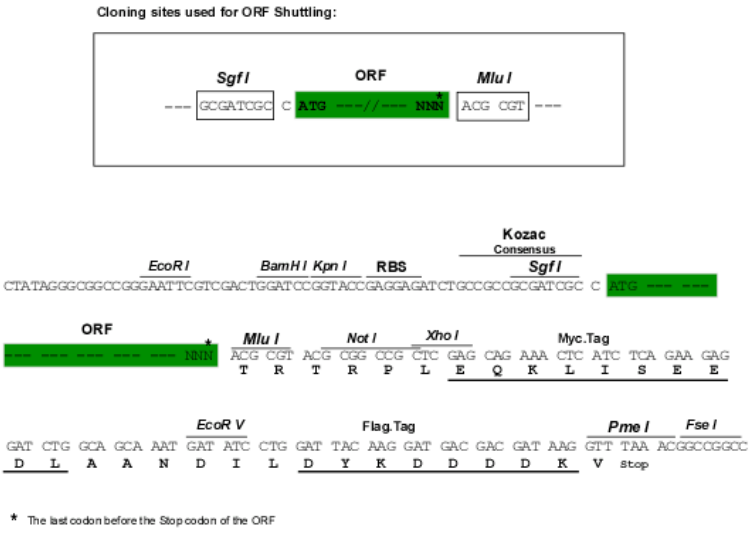
MVVSGAPPALGGGCLGTFTSLLLLASTAILNAARIPVPPACGKPQQLNRVVGGEDSTDSEWPWIVSIQKN
GTHHCAGSLLTSRWVITAAHCFKDNLNKPYLFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACA
DIALVRLERSIQFSERVLPICLPDASIHLPPNTHCWISGWGSIQDGVPLPHPQTLQKLKVPIIDSEVCSH
LYWRGAGQGPITEDMLCAGYLEGERDACLGDSGGPLMCQVDGAWLLAGIISWGEGCAERNRPGVYISLSA
HRSWVEKIVQGVQLRGRAQGGGALRAPSQGSGAAARS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022119

ORF Size: 951 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).

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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_022119.4

RefSeq Size: 1391 bp

RefSeq ORF: 954 bp

Locus ID: 64063

UniProt ID: Q9GZN4

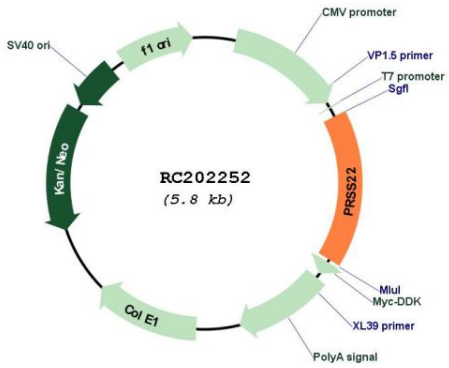
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Secreted Protein

MW: 33.7 kDa

Gene Summary: This gene encodes a member of the trypsin family of serine proteases. The enzyme is expressed in the airways in a developmentally regulated manner. The gene is part of a cluster of serine protease genes on chromosome 16. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202252

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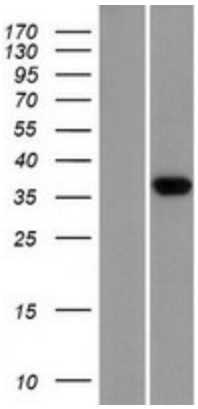

Western blot validation of overexpression lysate (Cat# [LY411791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202252 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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