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Product datasheet for RC200758

Signal Peptide Peptidase (HM13) (NM_030789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Signal Peptide Peptidase (HM13) (NM_030789) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Signal Peptide Peptidase
Synonyms:	H13; IMP1; IMPAS; IMPAS-1; MSTP086; PSENL3; PSL3; SPP; SPPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200758 representing NM_030789
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGAGGCAGGCGGCCCCACCAACAGCACTACGC
GGCCGCCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCTCCTGCTCATGGCGCTGCTGCCCAT
CTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCGCGGCAAGAATGCTTCAGACATGCCTGAAACAATC
ACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCTCTACCTCTTTTTCA
AAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAATCCTGGCCCT
GTCCCACACCATCAGCCCCTTCATGAATAAGTTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCAGCTG
CTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGG
TGTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCT
TTTTGGCCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATC
CTGCTGGGCGGACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCA
AGTCCTTCGAGGCACCAATAAAATTGGTGTTTCCCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAA
CTTTGCCATGCTGGGACTTGGAGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGAC
ATCAGCTTGAAGAAGAATACCCACACCTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCC
TTACCATCTTCATCATGCACATCTTCAAGCATGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCTGCAT
CGGTTTTCCTGTCCTGGTGGCGCTGGCCAAGGGAGAAGTGACAGAGATGTTCAGTTATGAGGAGTCAAAT
CCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGAACAGAGGCATCAGCATCGAAGGGGCTGGAGA
AGAAAGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC200758 representing NM_030789
Red=Cloning site Green=Tags(s)

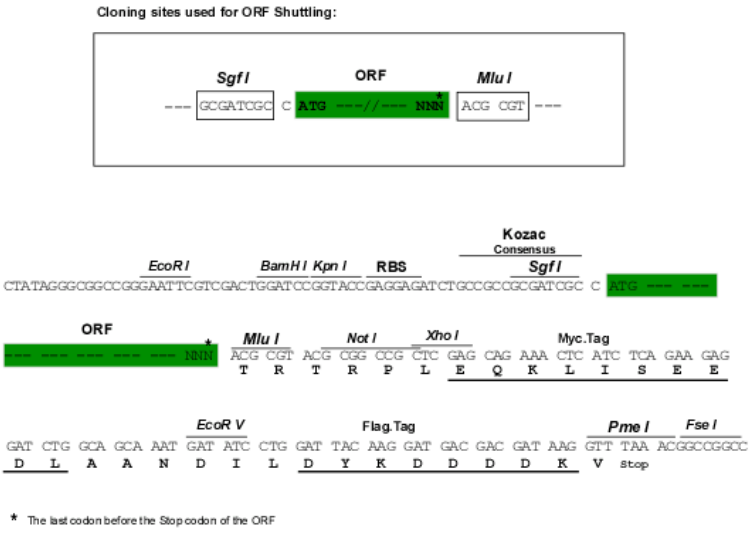
MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKNASDMPETI
TSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQL
LFTQGSGENKEEIINYEFDTKDLVCLGLSSIVGVWYLLRKHWIANNLFGLAFSLNGVELLHLNNVSTGCI
LLGGLFIYDVFWVFGTNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFD
ISLKKNTHTYFYTSFAAYIFGLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESN
PKDPAAVTESKEGTEASASKGLEKKEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8076_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030789

ORF Size: 1131 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_030789.3

RefSeq Size: 1604 bp

RefSeq ORF: 1134 bp

Locus ID: 81502

UniProt ID: Q8TCT9

Cytogenetics: 20q11.21

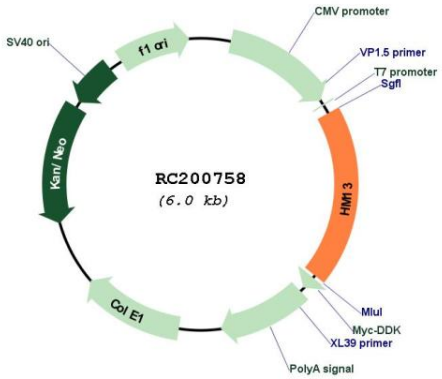
Domains: DUF435

Protein Families: Protease, Transmembrane

MW: 41.3 kDa

Gene Summary: The protein encoded by this gene, which localizes to the endoplasmic reticulum, catalyzes intramembrane proteolysis of some signal peptides after they have been cleaved from a preprotein. This activity is required to generate signal sequence-derived human lymphocyte antigen-E epitopes that are recognized by the immune system, and to process hepatitis C virus core protein. The encoded protein is an integral membrane protein with sequence motifs characteristic of the presenilin-type aspartic proteases. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200758