

Product datasheet for RC235134

PITRM1 (NM_001242307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PITRM1 (NM_001242307) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PITRM1
Synonyms:	MP1; PreP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235134 representing NM_001242307 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCGCTGCGGGGGCGGCAGGGCCTGTGTGTGCTGAGGCGGCTGAGCGGGACATGCACACCACA
GAGCGTGGCGATGGAACAGTAACCGGGCTGTGAGAGGGCTCTGCAGTAAACTAGGAGACAAGATCCA
TGGATTCACCGTAAACCAGGTGACATCTGTTCCCGAGCTGTTCCCTGACTGCAGTGAAGCTCACCCATGAT
GACACAGGAGCCAGGTATTTACACCTGGCCAGAGAAGACACGAATAATCTGTTCCAGCGTGCAGTTCCGTA
CTACTCCCATGGACAGTACTGGTGTTCCTCACATTCCTGAGCATACCGTCCCTTTGTGGGTCTCAGAAATA
TCCGTGCAGAGACCCTTTCTTCAAAATGTTGAACCGGTCCCTCTCCACGTTTCATGAACGCCTTCACAGCT
AGTGATTATACTCTGTATCCATTTTCCACACAAAATCCCAAGGACTTTCAGAATCTCCTCTCGGTGTATT
TGGATGCCACCTTTTCCCATGTTTACGCGAGCTGGATTTCTGGCAGGAAGGATGGCGGCTGGAACATGA
GAATCCGAGCGACCCCGAGACGCCCTTGGTCTTTAAAGGAGTCGTCTTAAATGAGATGAAGGGAGCGTTT
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TCTCCGGGGTGACCCACTGTGCATCCCGGAGCTTACATGGGAGCAGCTTAAGCAGTTTCATGCCACTCA
CTATCACCCAAGCAATGCTAGGTTCTTACGTAAGGTAATTTTCCATTAGAACAGCATCTGAAACAAATT
CACGAGGAAGCACTGAGCAAATTCAGAAAATGAACCAAGCACCGTGGTCCAGCTCAGACACCCTGGG
ACAAGCCTAGGGAATTCAGATAACATGTGGCCCGGATTCATTTGCTACAGATCCCTCTAAACAAACAAC
CATCAGCGTTAGCTTCTCTTACCGGACATCACCGACACATTTGAAGCCTTCACATTAAGTCTTCTGTCT
TCACTCTTGACTTCTGGGCCAATTCTCCCTTTTACAAAGCCTTGATTGAATCTGGCCTTGGCACAGACT
TTTCTCCTGATGTTGGATATAATGGCTACACGAGGGAGGCTACTTTAGTGTGGCCTCCAAGGGATTGC
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CAGTATTTAAGAATAACCAGCATAAGCTGACTTTATCGATGAGGCCAGATGACAAGTATCACGAGAAGC



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AGGCACAGGTGGAAGCCACGAAGCTCAAGCAGAAGGTCGAGGCTCTGTCCCCGGAGACAGGCAGCAGAT
 CTACGAGAAAAGTCTAGAATTACGGAGTCAACAAAGCAAACCTCAAGATGCCTCTTGTCTGCCAGCGTTG
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 GACTACCGGGAGCAGGCTCAGCAGATAGAATTGAAGACCGGAGGGATGAGTGCTTCTCCACAGTGTCTCC
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 CCTGCCAGACATGATGCAGCTATGGAGTGAATATTTAAACAACCCGTGCTTTGAAGAAGAGGAGCACTTC
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 AGTCTTTTGGGAAGGCTGTGACTGGGTAAGTCTGAAAATTCACACAGCAAGACATCGACGAAGCCAA
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 GGCCTCTCGGATGAGATGAAGCAGGCCACAGAGAGCAGCTCTTGTGTGACCCAGCACAAGCTCCTGG
 CCGTGAGCGATAGATACCTCGGCACTGGGAAGAGCACACAGCCCTGGCCATCCTCGACCCGAGAACC
 GAAAATTGCCAAGGACCCATCCTGGATCATCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC235134 representing NM_001242307
 Red=Cloning site Green=Tags(s)

MWRCGGRQGLCVLRRLSGHAHHRWNSNRACERALQYKLGDKIHGFTVNQVTSVPELFLTAVKLTHTD
 DTGARYLHLAREDTNNLFSVQFRTTPMDSTGVPHILEHTVLCGSQKYPDRDPFFKMLNRSLSFMNAFTA
 SDYTYLPFSTQNPQDFQNLQSVYLDATFFPCLRELDWFQEGWRLEHENPSDPQTPLVFKGVVFNEMKGF
 TDNERIFSQHLQNRLLPDHTYSVVSAGDPLCIPELTWEQLKQFHATHYHPSNARFFTYGNFPLEQHLKQI
 HEEALSKFQKIEPSTVVPAPQTPWDKREFQITCGPDSFATDPSKQTTISVSFLLPDITDTEAFTLSLLS
 SLLTSGPNSPFYKALIESGLGTDSPDVGYNGYTREAYFSVGLQGIAEKDIETVRSIDRTIDEVVEKGF
 EDDRIEALLHKIEIQMKHQSTSFGLMLTSYIASCWNHDGDPVELLKLGNQLAKFRQCLQENPKFLQEKVK
 QYFKNNQHKLTLSMRPDDKYHEKQAQVEATKQKQVEALSPGDRQQIYEKLELRSQQSKPQDASCLPAL
 KVSIDIEPTIPVTELDVVLTAGDIPVQYCAQPTNGMVYFRAFSSLNNTLPEELRPYVPLFCSVLTKLGCGLL
 DYREQAQQIQLKGGMSASPHVLPDDSHMDTYEQVGVLFSSLCCLRNLPMMLQWSEIFNPNCFEEEEHF
 KVLVKMTAQELANGIPDSGHLIASIRAGRTPAGDLQETFSGMDQVRLMKRIAEMTDIKPILRKLPRIK
 KHLNNGDNMRCVSNATPQQMPQTEKAVEDFLRSIGRSKERRPVRPHTVEKVPVSSSGGDAHVPHGSQVI
 RKLVMPTFKPWQMKTHFLMPPVNYVGEICIRTPYTPDPHASLILARLMTAKFLHTEIREKGGAYGGG
 AKLSHNGIFTLYSYRDPNTIETLQSFQKAVDWAKSGKFTQQDIDEAKLSVFSVTDAPVAPSDKGMDFLY
 GLSDEMKAHQREQLFAVSHDKLLAVSDRYLGTGKSTHGLAILGPENPKIAKDPSWIIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_001242307.1</u> , <u>NP_001229236.1</u>
RefSeq Size:	3508 bp
RefSeq ORF:	3117 bp
Locus ID:	10531
UniProt ID:	<u>Q5JRX3</u>
Cytogenetics:	10p15.2
Protein Families:	Druggable Genome, Protease
MW:	118 kDa
Gene Summary:	The protein encoded by this gene is an ATP-dependent metalloprotease that degrades post-cleavage mitochondrial transit peptides. The encoded protein binds zinc and can also degrade amyloid beta A4 protein, suggesting a possible role in Alzheimer's disease. [provided by RefSeq, Dec 2016]