

Product datasheet for **RC218987**

PNMA3 (NM_013364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNMA3 (NM_013364) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNMA3
Synonyms:	MA3; MA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218987 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGTTGACCTTGTTACAGGACTGGTGTGGGGGAAACACCTGAACACCCGGAGGTGCATGCTCATCC
 TGGGGATCCCCGAGGACTGTGGCGAGGATGAGTTTGAGGAGACTCCAGGAGGCTTGCAGGCACCTGGG
 CAGATACAGGGTATTGGCAGGATGTTTAGGAGGAGGAGAACGCCAGGCGATTCTACTGGAGCTGGCA
 CAAGATATCGACTATGCTTTGCTCCCAAGGAAAATACCAGGAAAGGGGGGCCCTGGGAAGTGATTGTAA
 AACCCCGTAACAGATGGGAAATTTCTCAACAGACTGAACCGCTTCTTAGAGGAGGAGAGGCGGACCGT
 GTCAGATATGAACCGAGTCTCGGGTCGGACCAATTGTTCCGGTCCAAGAGTGACTATATCACCAGAG
 TTCTGGACCTGGGCCAGACTCTGGGGCAGCAGTGCAGCCTCTGCTAGAACAAATGTTGTACCGAGAAC
 TAAGAGTGTCTGGGAACACCATATCCATCCCAGGTGACTGGCCTTTGATGCCTGGCTTGAGCACAC
 CACTGAGATGCTACAGATGTGGCAGGTGCCGAGGGGAAAAGAGCGGAGGCTGATGGAATGCTTACGG
 GGCCTGCTCTCCAGGTGGTCAGTGGGCTCCGGGCCAGCAATGCTTCCATAACTGTGGAGGAGTGCCTGG
 CTGCCTTGCAAGCAGGTGTTCCGGACTGTGGAGAGCCATAAAAATTGCCAGGTGAAGTTGTGTAAAGCCTA
 TCAGGAGGCAGGAGAGAAAGTATCTAGCTTTGTGTACGTTTGAACCCCTGCTCCAAAGAGCTGTAGAA
 AACAAATGTGGTATCACGTAGAAACGTGAATCAGACTCGCCTGAAACGAGTCTTAAGTGGGGCCACCCCTC
 CTGACAAACTCCGAGATAAGCTTAAGCTGATGAAACAGCGAAGGAAGCCTCCTGGTTTCTGGCCCTGGT
 GAAGCTCCTGCGTGAGGAGGAGGAATGGGAGGCCACTTTAGGTCCAGATAGGAGAGTCTGGAGGGGCTG
 GAAGTAGCCCCAAGGCCACCTGCCAGGATCACTGGGGTGGGGCAGTACCTCTCCCTGCCTTGGAACA
 GTTTTGTGCGAGGCCTTCCCAGGGCTACCGGCCCGGAGGGGCAGAGGCCAACACCGAAGGGGTGGTGT
 GGCAAGGGCTGGCTCTCGAGGCTCAAGAAAACGAAACGCCACACATTCTGCTATAGCTGTGGGGAAGAC
 GGCACATCAGGGTACAGTGCATCAACCCCTCCAACTGCTCTTGGTAAAGCAGAAGAAACAGGCTGCAG
 TTGAGTCGGGAAACGGAACTGGCTTGGGACAAGAGCCATCCCAAGTCCAAGGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218987 protein sequence
 Red=Cloning site Green=Tags(s)

MPLTLLQDWCERGEHLNTRRMLILGIPEDCGEDEFEEETLQEACRHLGRYRVIGRMFRREENAQAIIILELA
 QDIDYALLPREIPGKGGPWEVIVKPRNSDGEFLNRLNRFLEEERTVSDMNRVLGSDTNC SAPRVTISPE
 FWTWAQTLGA AVQPLLEQMLYRELRVFSGNTISIPGALAFDAWLEHTTEMLQMWQVPEGEKRRRLMECLR
 GPALQVVSGLRASNASITVEECLAALQQVFGPVESHKIAQVKLCKAYQEAGEKVSFVLRLEPLLQRAVE
 NNVVSRRNVNQTRLKRVLSGATLPDKLRDKLKLKMQRRKPPGFLLVKLLREEEWEATLGPDRSLEGL
 EVAPRPPARITGVGAVPLPASGNSFDARPSQGYRRRRGRGQHRGGVARAGSRGSRKRKRHTFCYSCGED
 GHIRVQCINPSNLLL VKQKQAAVESGNGNWA WDKSHPKSKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6483_a09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_013364

ORF Size: 1389 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_013364.6](#)

RefSeq Size: 3768 bp

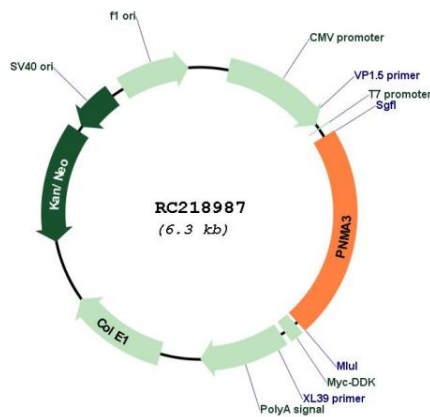
RefSeq ORF: 1392 bp

Locus ID: 29944

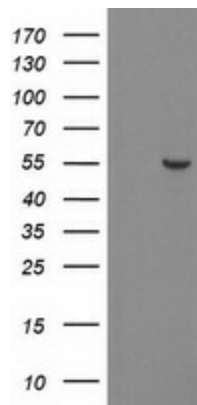
UniProt ID: [Q9UL41](#)
Cytogenetics: Xq28
Domains: zf-CCHC
MW: 52.4 kDa

Gene Summary: The protein encoded by this gene belongs to the paraneoplastic antigen MA (PNMA) family, which shares homology with retroviral Gag proteins. The PNMA antigens are highly expressed in the brain and also in a range of tumors associated with serious neurological phenotypes. PMID:16407312 reports the presence of a functional -1 ribosomal frameshift signal (consisting of a heptanucleotide shift motif followed 3' by a pseudoknot structure) in this gene, however, the frame-shifted product has not been characterized. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

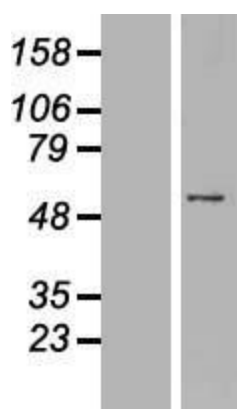
Product images:



Circular map for RC218987



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PNMA3 (Cat# RC218987, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PNMA3 (Cat# [TA502336]). Positive lysates [LY415667] (100ug) and [LC415667] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415667]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218987 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).