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Product datasheet for RC208021

PNMA1 (NM_006029) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNMA1 (NM_006029) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNMA1
Synonyms:	MA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208021 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGATGACACTGTTGGAAGACTGGTGCCGGGGGATGGATGTGAACTCCCAGAGAGCTCTGTTAGTCT
GGGGCATCCCAGTGAACTGTGATGAGGCTGAAATCGAAGAGACCCTCCAGGCTGCGATGCCCCAGGTCTC
CTACCGAATGCTTGGGAGAATGTTCTGGAGGGAAGAAAATGCGAAAGCAGCCTTATTAGAGCTCACTGGC
GCTGTAGATTACGCCGCGATCCCCAGGGAGATGCCGGGCAAAGGAGGGGTCTGGAAAGTGTTATTTAAGC
CCCCAACTTCTGATGCTGAATTTTTAGAAAGATTGCACCTCTTCCTAGCTAGAGAGGGGTGGACCGTGCA
AGATGTTGCCCGTGTCCTTGGGTTTCAGAACCCTACTCCGACCCCGGGCCCAGAGATGCCAGCAGAGATG
CTAAACTATATTTTGGATAATGTTATTCAGCCTCTTGTTGAGTCCATATGGTACAAGAGGCTGACACTTT
TCTCGGGGAGGGACATCCCAGGGCCTGGAGAGGAAACCTTTGATCCCTGGCTGGAGCACACTAATGAGGT
CCTAGAGGAGTGGCAGGTGTCCGATGTAGAAAAGAGGCGGCGGTTGATGGAGAGTCTTAGAGGCCCCGCC
GCTGATGTTATTCGCATCCTTAAGTCCAACAACCCCGCGATAACCACTGCCGAATGCCTGAAGGCGCTTG
AGCAGGTGTTTGGGAGCGTTGAGAGCTCTAGGGATGCCCAGATCAAATTTCTGAACACTTATCAGAACCC
GGGAGAAAAATTGTCTGCTTATGTCATTCGTCTGGAGCCTCTGCTACAGAAGGTGGTAGAGAAGGGGGCC
ATTGATAAAGATAATGTGAACCAGGCCCGCCTAGAGCAGGTCATTGCCGGGGCCAACCACAGCGGGGCCA
TCCGAAGGCAGCTGTGGCTTACCGGGGCTGGGGAAGGGCCAGCCCCAAACCTCTTTCAGTTGCTGGTGCA
GATCCGTGAGGAGGAAGCCAAGGAGGAGGAGGAGGAGGCTGAGGCCACCCTTCTGCAGTTAGGCCTGGAA
GGGCACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC208021 protein sequence
Red=Cloning site Green=Tags(s)

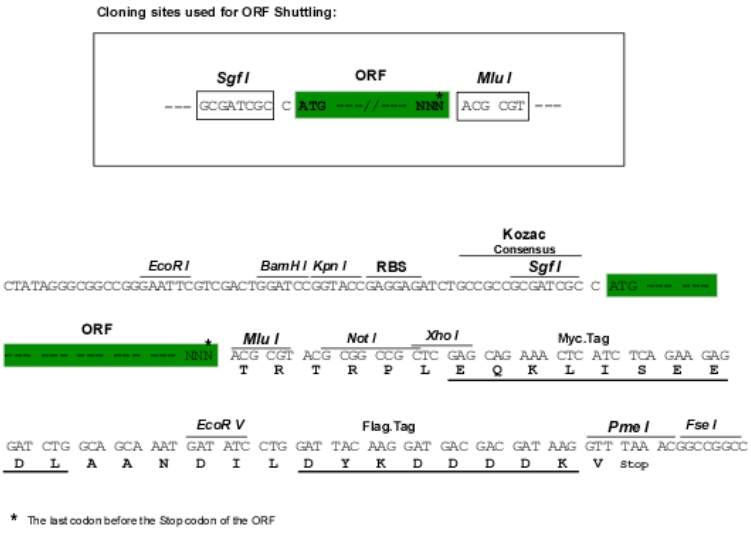
MAMTLLEDWCRGMDVNSQRALLVWGIPVNCDEAEIEETLQAAMPQVSYRMLGRMFWREENAKAALLELTG
AVDYAAIPREMPGKGGVWKVLFKPPTSDAEFLERLHLFLAREGWTVQDVARVLGFQNPTPTPGPEMPAEM
LNYILDNVIQPLVESIWYKRLTLFSGRDIPGPGEETFDPWLEHTNEVLEEWQVSDVEKRRRLMESLRGPA
ADVIRILKSNNPAITTAECLKALEQVFGSVESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGA
IDKDNVNQARLEQVIAGANHSGAIRRQLWLTGAGEGPAPNLFQLLVQIREEEAKEEEEEAEATLLQLGLE
GHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6341_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006029

ORF Size: 1059 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_006029.5

RefSeq Size: 2666 bp

RefSeq ORF: 1062 bp

Locus ID: 9240

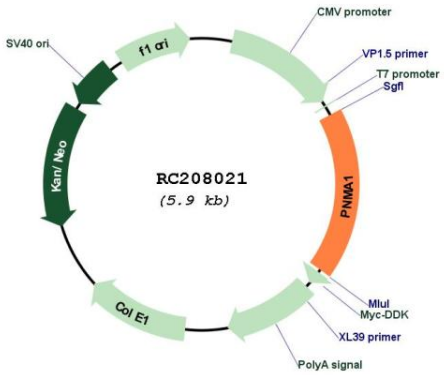
UniProt ID: Q8ND90

Cytogenetics: 14q24.3

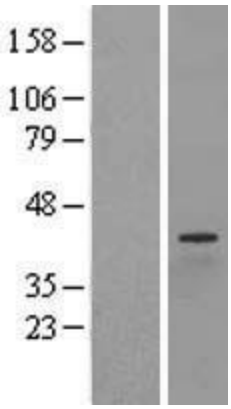
MW: 39.8 kDa

Gene Summary: This gene encodes a neuron- and testis-specific protein that is also expressed in some paraneoplastic syndromes affecting the nervous system. Some patients with neurologic disorders develop antibodies against the protein encoded by this gene. The identification of the antineuronal antibodies in the sera of these patients has facilitated the diagnosis of paraneoplastic neurological disorders and the early detection of the associated tumors. [provided by RefSeq, Feb 2014]

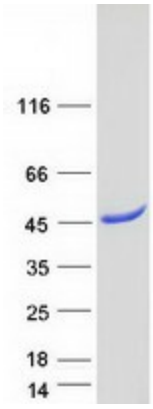
Product images:



Circular map for RC208021



Western blot validation of overexpression lysate (Cat# [LY416921]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208021 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PNMA1 protein (Cat# [TP308021]). The protein was produced from HEK293T cells transfected with PNMA1 cDNA clone (Cat# RC208021) using MegaTran 2.0 (Cat# [TT210002]).