

Product datasheet for **RG218987**

PNMA3 (NM_013364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PNMA3
Synonyms:	MA3; MA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG218987 representing NM_013364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGTTGACCTTGTTACAGGACTGGTGTGGGGGAACACCTGAACACCCGGAGGTGCATGCTCATCC
 TGGGGATCCCCGAGGACTGTGGCGAGGATGAGTTTGAGGAGACACTCCAGGAGGCTTGACGGCACCTGGG
 CAGATACAGGGTGATTGCGAGGATGTTTAGGAGGGAGGAGAACGCCAGGCGATTCTACTGGAGCTGGCA
 CAAGATATCGACTATGCTTTGCTCCCAAGGAAATACCAGGAAAGGGGGGCCCTGGGAAGTGATTGTAA
 AACCCCGTAACCTCAGATGGGAATTTCTCAACAGACTGAACCGCTTCTTAGAGGAGGAGAGCGGACCGT
 GTCAGATATGAACCGAGTCTCGGGTCGGACACCAATTGTTTCGGCTCCAAGAGTGACTATATCACCAGAG
 TTCTGGACCTGGGCCAGACTCTGGGGCAGCAGTGCAGCCTCTGCTAGAACAATGTTGTACCGAGAAC
 TAAGAGTGTTTTCTGGGAACACCATATCCATCCAGGTGCACTGGCCTTTGATGCCTGGCTTGAGCACAC
 CACTGAGATGCTACAGATGTGGCAGGTGCCGAGGGGAAAAGAGCGGAGGCTGATGGAATGCTTACGG
 GGCCCTGCTCTCCAGGTGGTCACTGGGCTCCGGGCCAGCAATGCTTCCATAACTGTGGAGGAGTGCCTGG
 CTGCCTTGACGAGGTGTTTCGGACCTGTGGAGAGCCATAAAATTGCCAGGTGAAGTTGTGTAAAGCCTA
 TCAGGAGGCAGGAGAGAAAGTATCTAGCTTTGTGTACGTTTGAACCCCTGCTCCAAGAGCTGTAGAA
 AACATGTGGTATCAGTAGAAACGTGAATCAGACTCGCCTGAAACGAGTCTTAAGTGGGGCCACCCTTC
 CTGACAAACTCCGAGATAAGCTTAAGCTGATGAAACAGCGAAGGAAGCCTCCTGGTTTCTGGCCCTGGT
 GAAGCTCCTGCGTGAGGAGGAGGAATGGGAGGCCACTTTAGGTCCAGATAGGGAGAGTCTGGAGGGGCTG
 GAAGTAGCCCCAAGGCCACCTGCCAGGATCACTGGGGTTGGGCGAGTACCTCTCCCTGCCTCTGGCAACA
 GTTTTGATGTGAGGCCTTCCAGGGCTACCGCGCCGGAGGGGAGAGGCCAACCCGAAGGGGTGGTGT
 GGCAAGGGCTGGCTCTCGAGGCTCAAGAAAACGAAACGCCACACATTCTGCTATAGCTGTGGGGAAGAC
 GGCCACATCAGGTACAGTGCATCAACCCCTCCACCTGCTCTTGGTAAAGCAGAAGAAACAGGCTGCAG
 TTGAGTCGGGAAACGGGAACCTGGGCTTGGGACAAGAGCCATCCCAAGTCCAAGGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218987 representing NM_013364
 Red=Cloning site Green=Tags(s)

MPLTLLQDWCRGEHLNTRRCMLILGIPEDCGEDEFEEETLQEACRHLGRYRVIGRMFRREENAQAILLELA
 QDIDYALLPREIPKGGPWEIVKPRNSDGEFLNRLNRFLEEERTVSDMNRVLGSDTNCSAPRVTISPE
 FWTWAQTLGAAVQPLLEQMLYRELRFVSGNTISIPGALAFDAWLEHTTEMLQMWQVPEGEKRRRLMECLR
 GPALQVVSGLRASNASITVEECLAALQQVFGPVESHKIAQVKLCKAYQEAGEKVSSFVLRLEPLLQRAVE
 NNVSRRNVNQTRLKRVLSGATLPDKLRDKLKLKMKQRRKPPGFALVKLLREEEEWEATLGPDRESLEGL
 EVAPRPPARITGVGAVPLPASGNSFDVRPSQGYRRRRGRGQHRRGGVARAGSRGSRKRKRHTFCYSCGED
 GHIRVQCINPSNLLL VKQKKQAIVESGNGNWAWDKSHPKSKAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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.

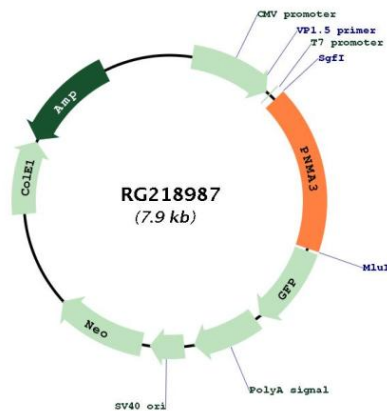
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013364.4](#), [NP_037496.3](#)

RefSeq Size:	3771 bp
RefSeq ORF:	1392 bp
Locus ID:	29944
UniProt ID:	Q9UL41
Cytogenetics:	Xq28
Domains:	zf-CCHC

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 RG218987