

Product datasheet for **RG207316**

MA2 (PNMA2) (NM_007257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MA2 (PNMA2) (NM_007257) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MA2
Synonyms:	MA2; MM2; RGAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207316 representing NM_007257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGGCACTGTTAGAGGACTGGTGCAGGATAATGAGTGTGGATGAGCAGAAGTCACTGATGGTTA
CGGGGATACCGGCGGACTTTGAGGAGGCTGAGATTCAGGAGGTCCTTCAGGAGACTTTAAAGTCTCTGGG
CAGGTATAGACTGCTTGGCAAGATATCCGGAAGCAGGAGAATGCCAATGCTGTCTTACTAGAGCTTCTG
GAAGATACTGATGTCTCGCCATTCAGTCCAGGAAAGGGGGTGTCTGGAAGGTGATCTTTA
AGACCCCTAATCAGGACTGAGTTTCTTGAAGATTGAACCTGTTTCTAGAAAAAGAGGGGCAGACGGT
CTCGGGTATGTTTCGAGCCCTGGGCGAGGAGGGGTGTCTCCAGCCACAGTGCCTGCATCTCACCAGAA
TACTGGCCCATTTGTTGGGACAGGCAATGGCACATGCGCCTCAGCCCTGCTACCCATGAGATACCGGA
AACTGCGAGTATTCTCAGGGAGTGTGTCCAGCCCGAGGAAGAGTCTTTGAGGTCTGGTTGGAACA
GGCCACGGAGATAGTCAAAGAGTGGCCAGTAACAGAGGCAGAAAAGAAAAGGTGGCTGGCGGAAAGCCTG
CGGGCCCTGCCCTGGACCTCATGCACATAGTGCAGGCAGACAACCCGTCCATCAGTGTAGAAGAGTGT
TGGAGGCTTTAAGCAAGTGTGGGAGCCTAGAGAGCCGAGGACAGCCAGGTGAGGTATCTGAAGAC
CTATCAGGAGGAAGGAGAGAAGTCTCAGCCTATGTGTTACGGCTAGAAACCTGCTCCGGAGAGCGGTG
GAGAAACGCGCCATCCCTCGGCGTATTGGGACCAGGTCAGCCTGGAGCAGGTCAATGGCTGGGGCCACTC
TTAACAGATGCTGTGGTCCCGCTTAGGGAGCTGAAGGATCAGGGCCCGCCCGCCAGCTTCTTGAGCT
AATGAAGTAATACGGGAAGAAGAGGAGGAAGAGGCTCCTTTGAGAATGAGAGTATCGAAGAGCCAGAG
GAACGAGATGGCTATGGCCGCTGGAATCATGAGGGAGACGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207316 representing NM_007257
 Red=Cloning site Green=Tags(s)

MALALLEDWCRIMSVDEQKSLMVTGIPADFEAEIQEVLQETLKSLGRYRLLGKIFRKQENANAVLLELL
 EDTDVSIAIPSEVQKGGVWVKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALGQEGVSPATVPCISPE
 LLAHLLGQAMAHAPQPLLPTRYRKLRFVSGSAVPAPEEESFEVWLEQATEIVKEWPVTEAEKRWLAESL
 RGPALDLMHIVQADNPISVVEECLEAFKQVFGSLESRRTAQVRYLKTYQEEGEKVSAYVLRLETLLRRAV
 EKRAIPRRIADQVSLEQVMAGATLNQMLWCRLRELKDQPPPSFLELMKVIREEEEEEEASFENESIEEPE
 ERDGYGRWNHEGDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007257

ORF Size: 1092 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_007257.4](#), [NP_009188.1](#)

RefSeq Size: 4788 bp

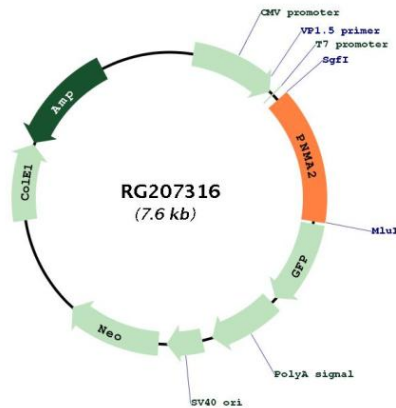
RefSeq ORF: 1095 bp

Locus ID: 10687

UniProt ID: [Q9UL42](#)

Cytogenetics: 8p21.2

Product images:



Circular map for RG207316