

Product datasheet for **RG221555**

ARMET (MANF) (NM_006010) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARMET (MANF) (NM_006010) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARMET
Synonyms: ARMET; ARP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221555 representing NM_006010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAGGATGTGGCCACGCAGGGGCTGGCGGTGGCGCTGGCTCTGAGCGTGCTGCCGGGCAGCCGGG
 CGCTGCGGCCGGGCGACTGCGAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAG
 AGATGTACATTCTCACCAGCCACTATTGAAAACGAACCTATAAAGTTCTGCCGGGAAGCAAGAGGCAAA
 GAGAATCGGTTGTGCTACTATATCGGGGCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAA
 AGCCTCTGGCCACCACATCCCTGTGGAGAAGATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATG
 TGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACAGTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTG
 AAGAAGATTCTGGATGACTGGGGGAGACATGCAAAGGCTGTGCAGAAAAGTCTGACTACATCCGGAAGA
 TAAATGAACTGATGCCTAAATATGCCCCCAAGGCAGCCAGTGCACGGACCGATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221555 representing NM_006010
 Red=Cloning site Green=Tags(s)

MRRMWATQGLAVALALSVLPGSRALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENELIKFCREARGK
 ENRLCYYIGATDDAATKIINEVSKPLAHHIPVEKICEKLLKKKDSQICELKYDKQIDLSTVDLKKLRVKEL
 KKILDDWGETCKGCAEKSDYIRKINELMPKYAPKAASARTDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_006010

ORF Size: 546 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.

RefSeq: [NM_006010.6](#)

RefSeq Size: 993 bp

RefSeq ORF: 549 bp

Locus ID: 7873

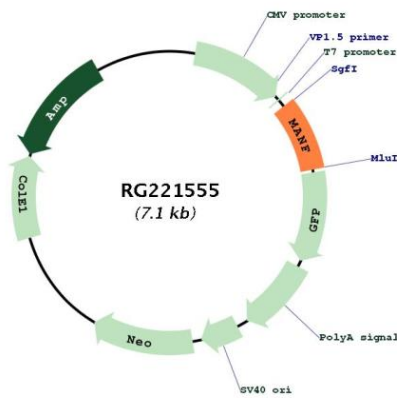
UniProt ID: [P55145](#)

Cytogenetics: 3p21.2

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is localized in the endoplasmic reticulum (ER) and golgi, and is also secreted. Reducing expression of this gene increases susceptibility to ER stress-induced death and results in cell proliferation. Activity of this protein is important in promoting the survival of dopaminergic neurons. The presence of polymorphisms in the N-terminal arginine-rich region, including a specific mutation that changes an ATG start codon to AGG, have been reported in a variety of solid tumors; however, these polymorphisms were later shown to exist in normal tissues and are thus no longer thought to be tumor-related. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG221555