

Product datasheet for **RN201485**

Manf (NM_001108183) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Manf (NM_001108183) Rat Untagged Clone
Tag: Tag Free
Symbol: Manf
Synonyms: Armet
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN201485 representing NM_001108183
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGGCTACGCGGGCTGGCGGTAGCGCTGGCCCTGAGCGTTCTGCCTGACAGTCGGGCGCTACGGC
CAGGCGACTGCGAAGTTTGTATTTCTTATCTGGGAGATTTTACCAGGACCTCAAAGACAGGGATGTCAC
ATTTTCACCAGCCACTATTGAAGAAGAAGCTTATAAAGTTCTGCCGGAAGCAAGAGGCAAAGAAAATCGG
TTGTGCTACTACATTGGAGCCACAGATGATGCCGCCACCAAGATCATCAATGAGGTATCGAAGCCTCTGG
CCCACCATATCCCTGTGGAGAAGATCTGTGAGAAGCTGAAGAAGAAGACAGCCAGATCTGCGAGCTAAA
ATACGGTGAGTGTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001108183

Insert Size: 369 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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_001108183.1](#), [NP_001101653.1](#)

RefSeq Size: 550 bp

RefSeq ORF: 369 bp

Locus ID: 315989

Cytogenetics: 8q32

Gene Summary: Selectively promotes the survival of dopaminergic neurons of the ventral mid-brain (By similarity). Modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra (PubMed:16462600). Enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons (PubMed:16462600). Inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death (By similarity). Retained in the ER/sarcoplasmic reticulum (SR) through association with the endoplasmic reticulum chaperone protein HSPA5 under normal conditions (By similarity). Up-regulated and secreted by the ER/SR in response to ER stress and hypoxia (By similarity). Following secretion by the ER/SR, directly binds to 3-O-sulfogalactosylceramide, a lipid sulfatide in the outer cell membrane of target cells (By similarity). Sulfatide binding promotes its cellular uptake by endocytosis, and is required for its role in alleviating ER stress and cell toxicity under hypoxic and ER stress conditions (By similarity).[UniProtKB/Swiss-Prot Function]