

Product datasheet for **MR228608**

Artn (NM_001284191) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Artn (NM_001284191) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Artn
Synonyms: neub; neublastin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228608 representing NM_001284191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGA**ACTGGGACTTGCAGAGCCTACTGCATTGTCCCACTGCCTCCGGCCTAGGTGGCAGTCAGCCTGGT**
GGCCAACCCTAGCTGTTCTAGCCCTGCTGAGCTGCGTCACAGAAGCTTCCTGGACCCAATGTCCCGCAG
CCCCGCCGCTCGCGACGGTCCCTACCGGCTTTGGCGCCCCACGGACCACCTGCCTGGGGACACACT
GCGCATTGTGCAGCGAAAGAACCCTGCGACCCCCGCTCAGTCTCCTCAGCCCGCACCCCCGCCGCTG
GTCCCGCGCTCCAGTCTCCTCCCGCTGCGCTCCGCGGGGCACGCGCGCGGTGCAGGAACCCGGAGCAG
CCGCGCACGGACCACAGATGCGCGCGGCTGCCGCTGCGCTCGCAGCTGGTGCCGGTGAGTGCCTCGGC
CTAGGCCACAGCTCCGACGAGCTGATACGTTTCCGCTTCTGCAGCGGCTCGTGCCGCCGAGCACGCTCCC
AGCACGATCTCAGTCTGGCCAGCCTACTGGGCGCTGGGGCCCTACGGTCGCTCCCGGGTCCCGCCGAT
CAGCCAGCCCTGCTGCCGGCCACTCGCTATGAGGCCGTCTCCTCATGGACGTGAACAGCACCTGGAGG
ACCGTGGACCACCTCTCCGCACTGCCTGCGGCTGTCTGGGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228608 representing NM_001284191
 Red=Cloning site Green=Tags(s)

MELGLAEPTALSHCLRPRWQSAWWPTLAVLALLSCVTEASLDPMSRSPAARDGSPVLPAPTDHLPGGHT
 AHLCSERTLRPPQSPQPAPPPPGPALQSPPAALRGARAARAGTRSSRARTTDARGCRLRSQLVPVSALG
 LGHSSDELIRFRFCSGSCRARRSQHDL SLASLLGAGALRSPGSRPISQPCCRPTRYEAVSFMDVNSTWR
 TVDHL SATACGCLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001284191

ORF Size: 672 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_001284191.1](#), [NP_001271120.1](#)

RefSeq Size: 1837 bp

RefSeq ORF: 675 bp

Locus ID: 11876

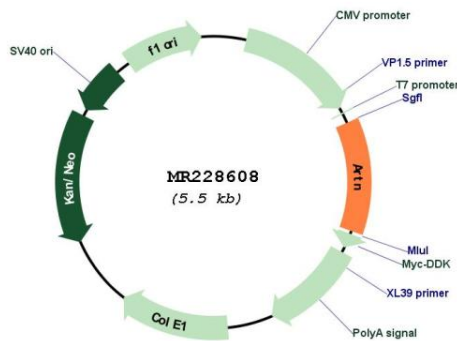
UniProt ID: [Q9Z0L2](#)

Cytogenetics: 4 D1

MW: 23.7 kDa

Gene Summary: This gene encodes a secreted ligand of the glial cell line-derived neurotrophic factor (GDNF) subfamily and TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein signals through the RET receptor and GFR alpha 3 coreceptor, and supports the survival of a number of peripheral neuron populations and at least one population of dopaminergic CNS neurons. Mice lacking a functional copy of this gene exhibit ptosis and impaired development of the sympathetic nervous system. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR228608