

Product datasheet for MR228454

Artn (NM_001284192) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Artn (NM_001284192) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Artn
Synonyms: neub; neublastin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228454 representing NM_001284192
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGTGGGACTTGCAGAGCCTACTGCATTGTCCACTGCCTCCGGCCTAGGTGGCAGTCAGCCTGGT
 GGCCAACCCTAGCTGTTCTAGCCCTGCTGAGCTGCGTCACAGAAGCTTCCCTGGACCAATGTCCCGCAG
 CCCCAGCGCTCGCGACGGTCCCTCACCGGTCTTGGCGCCCCACGGACCACCTGCTGGTAGGGGGACA
 CACTGCGCATTTGTGCAGCGAAAGAACCCTGCGACCCCGCCTCAGTCTCCTCAGCCCGACCCCGCCG
 CCTGGTCCCGCGCTCCAGTCTCCTCCCGCTGCGCTCCCGGGGCACGCGGGCGCGTGCAGGAACCCGGA
 GCAGCCGCGCACGGACCACAGATGCGCGCGGCTGCCGCCTGCGCTCGCAGCTGGTCCCGGTGAGTGCCT
 CGGCCTAGGCCACAGCTCCGACGAGTGATACGTTTCCGTTCTCGACGGCTCGTGCCCGCGAGCACGC
 TCCCAGCACGATCTCAGTCTGGCCAGCCTACTGGGCGCTGGGGCCCTACGGTGCCTCCCGGGTCCCGGC
 CGATCAGCCAGCCCTGCTGCCGGCCACTCGCTA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228454 representing NM_001284192
 Red=Cloning site Green=Tags(s)

MELGLAEPTALSHCLRPRWQSAWWPTLAVLALLSCVTEASLDPMSRSPAARDGSPVLPAPPTDHLPRGRT
 HCAFVQRKNPATPASVSSARTPAAWSRAPVSSRCAPRGTRGACRNPEQPRTDHRCARLPPALAAGAGECA
 RPRPQLRRADTFPLLQRLVPPSTLPARSQSQPTGRWGPVTVASRVPADQPALLPAHSL

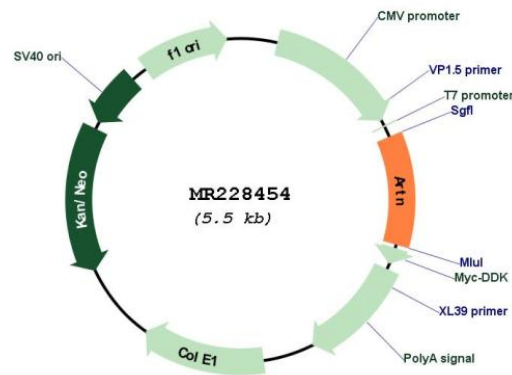
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001284192

ORF Size: 594 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_001284192.1](#), [NP_001271121.1](#)

RefSeq Size: 2327 bp

RefSeq ORF: 597 bp

Locus ID: 11876

UniProt ID: [Q9Z0L2](#)

Cytogenetics: 4 D1

MW: 21.5 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]