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Product datasheet for MC226398

Artn (NM_001284193) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Artn (NM_001284193) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Artn
Synonyms:	neub; neublastin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226398 representing NM_001284193 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAACTGGGACTTGCAGAGCCTACTGCATTGTCCCACTGCCTCCGGCCTAGGTGGCAGTCAGCCTGGT GGCCAACCCTAGCTGTTCTAGCCCTGCTGAGCTGCGTCACAGAAGCTTCCCTGGACCCAATGTCCCGCAG CCCCGCCGCTCGCGACGGTCCCTCACCGGTCTTGGCGCCCCCCACGGACCACCTGCCTGGGGGACACACT GCGCATTTGTGCAGCGAAAGAACCCTGCGACCCCCGCCTCAGTCTCCTCAGCCCGCACCCCCGCCGCCTG GTCCCGCGCTCCAGTCTCCTCCCGCTGCGCTCCGCGGGGCACGCGCGGCGCGTGCAGGAACCCGGAGCAG CCGCGCACGGACCACAGATGCGCGCGGCTGCCGCCTGCGCTCGCAGCTGGTGCCGGTGAGTGCGCTCGGC CTAGGCCACAGCTCCGACGAGCTGATACGTTTCCGCTTCTGCAGCGGCTCGTGCCGCCGAGCACGCTCCC AGCACGATCTCAGTCTGGCCAGCCTACTGGGCGCTGGGGCCCTACGGTCGCCTCCCGGGTCCCGGCCGAT CAGCCAGCCCTGCTGCCGGCCCACTCGCTATGAGGCCGTCTCCTTCATGGACGTGAACAGCACCTGGAGG ACCGTGGACCACCTCTCCGCCACTGCCTGCGGCTGTCTGGGCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001284193
Insert Size:	675 bp

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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001284193.1, NP_001271122.1
RefSeq Size:	2323 bp
RefSeq ORF:	675 bp
Locus ID:	11876
UniProt ID:	Q9Z0L2
Cytogenetics:	4 D1
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] Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.