

Product datasheet for RC215471

Artemin (ARTN) (NM_057091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Artemin (ARTN) (NM_057091) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Artemin
Synonyms:	ART; ENOVIN; EVN; NBN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215471 representing NM_057091 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTGGACTTGGAGGCCTCTCCACGCTGTCCCACTGCCCTGGCCTAGGCGGCAGCCTGCCCTGT
GGCCACCCTGGCCGCTCTGGCTCTGCTGAGCAGCGTCGCAGAGGCCTCCCTGGGCTCCGCGCCCCGCGAG
CCCTGCCCCCGGAAGGCCCGCCCTGTCTGGCGTCCCCCGCGCCACCTGCCGGGGGACGCAGC
GCCCGCTGGTGCAGTGAAGAGCCGGCGGCCCGCCGCGCAGCCTTCTCGGCCCGCGCCCCCGCCGCTG
CACCCCATCTGCTCTTCCCCGCGGGGGCGCGCGCGCGGGCTGGGGGCCGGGAGCCCGCTCGGGC
AGCGGGGGCGCGGGGCTGCCGCCTGCGCTCGCAGCTGGTCCCGGTGCGCGCGCTCGGCCTGGCCACCGC
TCCGACGAGCTGGTGCCTTCCGCTTCTGCAGCGCTCCTGCCGCGCGCGCGCTCTCCACAGACCTCA
GCCTGGCCAGCCTACTGGGCGCCGGGGCCCTGCGACCGCCCCGGGCTCCCGGCCGTAGCCAGCCCTG
CTGCCGACCCACGCGCTACGAAGCGGTCTCCTCATGGACGTCAACAGCACCTGGAGAACCGTGGACCGC
CTCTCCGCCACCGCTGCGGCTGCCTGGGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215471 representing NM_057091
Red=Cloning site Green=Tags(s)

MELGLGGLSTLSHCPWRRQPALWPTLAALALLSSVAEASLGSAPRSPAPREGPPPVLASPAGHLPGGRT
 ARWCSGRARRPPPPQPSRPAPPPAPPSSALPRGGRAARAGGPGSRARAAGARGCRLRSQLVPVRALGLGHR
 SDELVRFRCGSGCRRARSPHDLASLLGAGALRPPPGSRPVSQPCCRPTRYEAVSFMDVNSTWRTVDLR
 LSATACGLG

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_057091

ORF Size: 660 bp

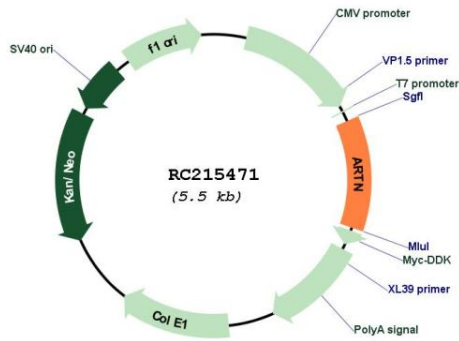
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

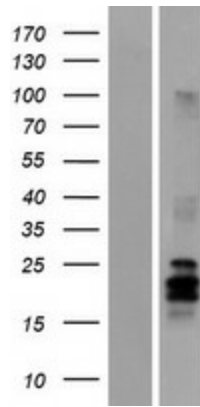
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_057091.1 , NP_476432.1
RefSeq Size:	1892 bp
RefSeq ORF:	663 bp
Locus ID:	9048
UniProt ID:	Q5T4W7
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome, Secreted Protein
MW:	18.8 kDa
Gene Summary:	<p>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. This protein has also been shown to promote tumor growth, metastasis, and drug resistance in mammary carcinoma. [provided by RefSeq, Aug 2016]</p>

Product images:



Circular map for RC215471



Western blot validation of overexpression lysate (Cat# [LY409293]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215471 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).