

## Product datasheet for RR209126

### Artn (NM\_053397) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Artn (NM\_053397) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Artn  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RR209126 representing NM\_053397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGTGGGACTTGGAGAGCCTACTGCATTGTCCCACTGCCTCCGGCCTAGGTGGCAACCAGCCTTGT  
 GGCCAACCCTAGCTGCTCTAGCCCTGCTGAGCAGCGTCACAGAAGCTTCCTGGACCCAATGTCCCAGC  
 CCCCCTCTCGCGATGTTCCCTCGCCGGTCTGGCGCCCCAACAGACTACCTACCTGGGGACACACC  
 GCACATCTGTGCAGCGAAAGACCCTGCGACCACCGCCGAGTCTCCTCAGCCCGCACCCACCACCCG  
 GTCCCGCGTCCAGTCTCCTCCCGTGCCTCCCGGGGCACGCGCGCGGTGCAGGAACCCGGAGCAG  
 CCGCGCACGGGTACAGATGCGCGCGGTGCGCCCTGCGCTCACAGCTGGTGCCGGTGCAGCGTCTCGGC  
 CTGGGCCACAGCTCCGACGAGCTGATACGTTTCCGCTTCTGCAGCGTTTCGTGCCCGGAGCAGCTCCC  
 CGCAGATCTCAGCCTGGCCAGCCTGCTGGACGCCGGGCCCTGCGGTGCGCTCCCGGTCCCGGCCGAT  
 CAGCCAGCCCTGTTGCCGGCCACTCGCTATGAGGCCGCTCCTTCATGGACGTGAACAGCACCTGGAGA  
 ACCGTGGACCATCTCCGCCACCGCTGCGGCTGTCTGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209126 representing NM\_053397  
 Red=Cloning site Green=Tags(s)

MELGLGEPTALSHCLRPRWQPALWPTLAALALLSSVTEASLDPMSRSPASRDVPSVLPAPPTDYLPGGHT  
 AHLCSERALRPPQSPQPAPPPGPALQSPPAALRGARAARAGTRSSRARATDARGCRLRSQ LVPVSALG  
 LGHSSDELIRFRFCSGSRRRARSPhDL SLASLLDAGALRSPGSRPI SQPCRPTRYEAVSFMDVNSTWR  
 TVDHL SATACGLG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

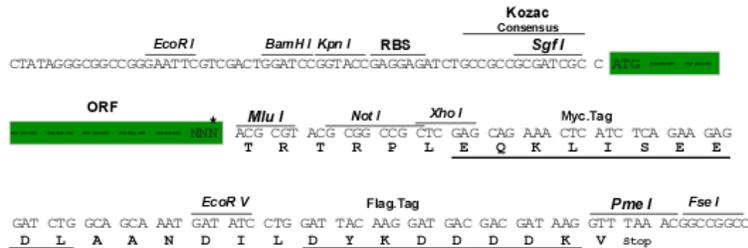


**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3342\\_g04.zip](https://cdn.origene.com/chromatograms/ja3342_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_053397

**ORF Size:** 672 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_053397.1](#), [NP\\_445849.1](#)

**RefSeq Size:** 1357 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 362572

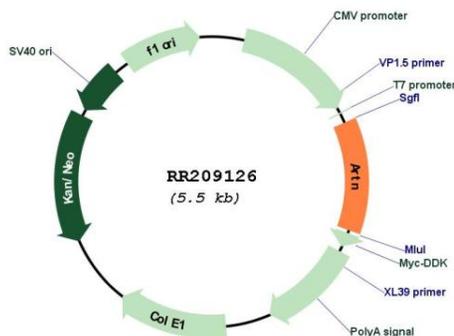
**UniProt ID:** [Q6AYE8](#)

**Cytogenetics:** 5q36

**MW:** 23.7 kDa

**Gene Summary:** Ligand for the GFR-alpha-3-RET receptor complex but can also activate the GFR-alpha-1-RET receptor complex. Supports the survival of sensory and sympathetic peripheral neurons in culture and also supports the survival of dopaminergic neurons of the ventral mid-brain. Strong attractant of gut hematopoietic cells thus promoting the formation Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR209126