

## Product datasheet for **RG219248**

### AMN (NM\_030943) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMN (NM_030943) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMN
Synonyms:	amnionless; IGS2; PRO1028
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219248 representing NM\_030943  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCGTCTGGGCCGGTCTGCTGTGGCTGCAGCTCTGCGCACTGACCCAGGCGGTCTCCAACTCT  
 GGGTCCCCAACACGACTTCGACGTCGCAGCCTGGAGCCAGAACCGACCCCGTGCAGCGCGCGC  
 CGTTGAGTCCCGCGGACAAGATGGTGTGTCAGTCTGGTCAAGAAGGTACGCGCTCTCAGACATGCTC  
 CTGCCGCTGGATGGGAACTCGTCTGGCTTCAGGAGCCGGATTCCGGCTCTCAGACGTGGGCTCGCACC  
 TGGACTGTGGCGCGGGAACCTGCCGCTTCCGCGACTCTGACCGCTTCTCTGGCATGACCCGCACCT  
 GTGGCGCTCTGGGACGAGGCACCTGGCTCTTCTTCTGGACGCGGAGCGGTGCCCTGCCCCACGAC  
 GACGCTCTTTCCGCTAGTGCCTCTCCGCGTGGGGCTCGGCCCTGGCGTAGCCCCGTGCGTGTCC  
 GCAGCATCTCGGCTCTGGCCGGACGTTACGCGCGACGAGGACCTGGCTGTTTTCTGGCGTCCCGCC  
 GGCCCGCTACGCTTCCACGGGCGGGCGCGTGAAGCTGGGCCCCGAGGACTGCGCGGACCCGTCCGGC  
 TGGCTCTGCGGCAACGCGGAGGCGAGCCGTGGATCTGCGCGGCCCTGCTCCAGCCCTGGGCGGCCGT  
 GTCCCCAGGCCGCTGCCACTTTGCCCTCCGGCCCCAGGGGCAAGTGTGTGACCTCTGTGGAGCCGTTGT  
 GTTGCTGACCCACGGCCCCGATTTGACCTGGAGCGGTACCGGGCGCGGATACTGGACACCTTCTGGGT  
 CTGCCCTCAGTACCACGGGCTGCAGGTGGCCGTGTCCAAGGTGCCACGCTCGTCCCGGCTCCGTGAGGCCG  
 ATACGGAGATCCAGGTGGTGTGGTGGAGAATGGGCCCCGAGACAGGCGGAGCGGGCGGCTGGCCCGGGC  
 CCTCTGGCGGACGTCGCCGAGAACGGCGAGGCCCTCGGCGTCTGGAGGCGACCATGCGGGAGTCCGGC  
 GCACACGCTGGGGCAGTCCCGGCTGGGCTGGCGGGCGGCGTGGCGGCTGCCGTGCTGCTGGCGCTGC  
 TGGTCTGCTGGTGGCGCCCGCTGCTGCGCCCGCGGGGAGGCTCAGGTGGAGGAGCAGGAGCGCGC  
 GGCCCGGCTGGAGCGCCCTCGGCTTCCGCAACCCGGTGTTCGACGTGACGCGCTCCGAGGAGTCCCC  
 CTGCCGCGGCGGCTCAGCCTGGTTCCGAAGGCGGCCGAGACAGCACCAGCCACAGTTACTTCGTCAACC  
 CTCTGTTCCGCGGGGCCGAGGCCGAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219248 representing NM\_030943  
 Red=Cloning site Green=Tags(s)

MGVLRVLLWLQCALQAVSKLWVPNTDFDVAANWSQNRTPCAGGAVEFPADKMVSVLVQEGHAVSDML  
 LPLDGELVLASGAGFGVSDVGSHLDCGAGEPAVFRSDRFSWHDPLWRSDEAPGLFFVDAERVPCRHD  
 DVFFPPSASFRVGLGPGASPVVRVRSISALGRFTTRDEDLAVFLASRAGRRLRFHGPALSVGPEDCADPSG  
 CVCGNAEAQPWICAALLQPLGGRCPPQAACHFALRPOGQCCDLGAVVLLTHGPAFDLERYRARIIDTFLG  
 LPQYHGLQVAVSKVPRSSRLREADTEIQVVLVENGPETGGAGRLARALLADVAENGEALGVLEATMRESG  
 AHVWGSSAAGLAGGVAALVLLALLVLLVAPPLLRAGRLRWRHEAAAPAGAPLGFRRNPVFDVTASEELP  
 LPRRLSLVPKAAADSTSHSYFVNPLFAGAEAEA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_030943

**ORF Size:** 1359 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\\_030943.1](#), [NP\\_112205.1](#)

**RefSeq Size:** 1896 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 81693

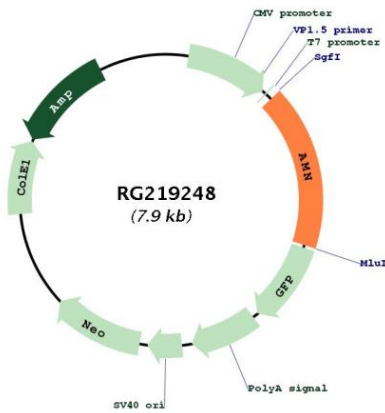
**UniProt ID:** [Q9BXJ7](#)

**Cytogenetics:** 14q32.32

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a type I transmembrane protein. It is thought to modulate bone morphogenetic protein (BMP) receptor function by serving as an accessory or coreceptor, and thus facilitates or hinders BMP binding. It is known that the mouse AMN gene is expressed in the extraembryonic visceral endoderm layer during gastrulation, but it is found to be mutated in amnionless mouse. The encoded protein has sequence similarity to short gastrulation (Sog) and procollagen IIA proteins in *Drosophila*. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG219248