

Product datasheet for **RR213300**

At11 (NM_001009831) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	At11 (NM_001009831) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	At11
Synonyms:	Spg3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213300 representing NM_001009831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTAAGAGCCGACGGACAGAAACAGTTGGGGTGGGTTTTTCAGAGAAGTCAAGTGATTGGAGCTCAG
 AAGAGGAGGAGCCGGTGAGAAAGGCAGGACCCGTCCTCAAGTCTCATCGTCAAAGACGACCATTCCTTTGA
 GTTAGATGAGGCTGCACTGAACCGGATCCTTCTGTCTGAGGCCGTGAGAGACAAGGAAGTGGTTGCCGTG
 TCTGTTGCTGGAGCCTTTAGAAAAGGAAAATCCTTCTGATGGACTTCATGTTACGGTACATGTACAACC
 AGGAATCTGTTGATTGGGTTGGAGATTACAATGAACCATGACTGGATTTTCATGGAGAGGTGGATCTGA
 ACGAGAAAACACAGGAATCCAGATCTGGAGCGAAGTTTTCTCATCAATAAGCTTGATGGTAAAAAGGTT
 GCAGTGTACTGATGGATACTCAGGGAACCTTTGACAGTCAGTCAACTTTGAGAGATTCGCCACAGTAT
 TTGCCCTTAGCACAATGATAAGCTCAATACAGGCTACAACCTATCCAAAATGTCCAGGAGGACGACCT
 TCAGCATCTCCAGCTTTTCACTGAGTATGGCAGGTTGGCAATGGAAGAAACATTCCTGAAGCCTTTTCAG
 AGTCTGATATTTCTGTTTCGAGACTGGAGTTCCCATACGAATTCATACGGAGCTGATGGTGGCGCCA
 AGTTTTTGAAAAACGCCTCAAGGTCTCAGGGAACCAGCAGAAAGAACTACAGAATGTGAGAAAAGCAT
 CCATTCCTGTTTTACCAACATTTCTGTTTTCTCTACCTCATCTGGCTTAAAAGTAGCTACGAACCCA
 AACTTTGATGGAAAACAAAAGAAATAGATGACGAATTCATCAAAAACCTGAAAACTGATTCCGTGGC
 TCCTTAGTCCCGAGAGCCTAGATATTAAGAGATCAATGGGAATAAAATCACCTGCCGAGGTCTGCTGGA
 GTACTTCAAGGCGTACATAAAGATCTACCAAGGGGAAGAATTGCCACATCCCAAGTCCATGTTACAGGCC
 ACAGCAGAAGCCAACAACCTAGCAGCTGTTGCAACCGCCAAGGACACATAACAAGAAGATGGAGGAGA
 TTTGTGGTGGTGACAAACCATTTTGGCCCCAATGACCTGCAAACCAAGCACCTGCAGCTAAAAGAAGA
 CTCTGTGAAGCTGTTCCGAGGTGTAAGAAGATGGGTGGGGAAGAATTCAGCCGGCGCTACCTACAGCAG
 CTGGAGAGTGAATAGACGAACTCTACATCCAGTACATCAAGCACAATGACAGCAAAAATATCTTCCATG
 CCGCTCGACCCAGCCACACTGTTTGTGTGATCTTTATCACGTATGTCATCGCTGGTGTGACTGGATT
 CATTGGTTGGACATCATAGCTAGCCTGTGCAACATGATCATGGGACTGACACTCATCACGCTGTGCACC
 TGGGCATACATCCGCTACTCTGGGGAGTATCGAGAGCTGGGCGCTGTAATCGACCAGGTAGCTGCAGCTT
 TGTGGGACCAGGGAAGCACAATGAGGCTTTATAAAGCTGTACAGTGCAGCAGCAACCCACAGACACCT
 GTATCAGCAAGCCTTTCTGCACCCAAGTCAGAACCTACTGAGCAACCGGAAAAGAAGAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213300 representing NM_001009831
 Red=Cloning site Green=Tags(s)

MAKSRDRNSWGGFSEKSSDWSSEEEEPVRKAGPVQVLIVKDDHSFELDEAALNRILLSEAVRDKEVVAV
 SVAGAFRKGKSFMLDFMLRYMYNQESVDWVGDYNEPLTGF SWRGGSERETTGIQIWESEVFLINKLDGKKV
 AVLLMDTQGTQFDSQSTLRDSATVFALSTMISSIQVYNLSQNVQEDDLQHLQLFTEYGR LAMEETFLKPFQ
 SLIFLVRDWSFPYEF SYGADGGAKFLEKRLKVSNGHQHEELQNVKRKHIHSCFTNISCFLLPHPLKQVATNP
 NFDGKLEIDDEFIKNLKILIPWLLSPESLDIKEINGNKITCRGLLEYFKAYIKIYQGEELPHPKSMLQA
 TAEANLAAVATAKDTYNKMEEICGGDKPFLAPNDLQTKHLQLKEDSVKLRGKVKMGGEF SRRYLQQ
 LESEIDELIYIQYIKHNSKNIFFHAARTPATLFVVIFITYVIAGVTGFIGLDIIASLCNMIMGLTLITLCT
 WAYIRYSGEYRELGAVIDQVAAALWDQGSTNEALYKLYSAAATHRHLYQQAFPAPKSEPTEQPEKKKI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001009831

ORF Size: 1674 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_001009831.2](#), [NP_001009831.1](#)

RefSeq Size: 2585 bp

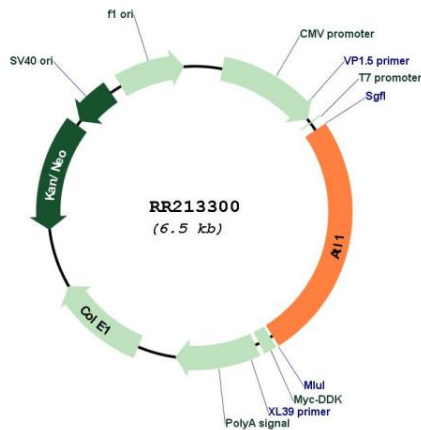
RefSeq ORF: 1677 bp

Locus ID: 362750

UniProt ID: [Q6PST4](#)

Cytogenetics: 6q24
MW: 63.4 kDa
Gene Summary: GTPase tethering membranes through formation of trans-homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis. May also regulate Golgi biogenesis. May regulate axonal development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR213300