

Product datasheet for **RR202781**

AtI3 (NM_001044241) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AtI3 (NM_001044241) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AtI3
Synonyms:	RGD1309871
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202781 representing NM_001044241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCGAGATTCCAGTACGCAGTCACAGGTGATGCCATGGAGAATGGAAAACCTGGTCCAGTGCAGG
 TCGTTTTGGTTTCATAAAGAGCAGCACTCCTTTGAGCTAGAAGAGAGAGCCTTGGCCAGCGTCTCTCCCA
 AGACCATATCCGAGATCTTGATGTAGTGGTAGTATCAGTGGCTGGTGCTTTTCGAAAGGGCAAATCCTTC
 ATTCTGGACTTTATGCTGCGATACTTATATTCTCAGAAGGAACATGGTCATTCAAATTTGGTTGGGTGACC
 CAGAAGAACCAGTACAGGATTTTCATGGCGGGAGGCTCTGACCAGAACTACTGGGATTCAGATTTG
 GAGTGAAGTTTCACTGTGAAGAAGCCATGTGGGAAAGAGTTGCAGTTGTTCTGATGGATACCCAGGGG
 GCCTTTGACAGCCAGTCAACTGTGAAAGATTGTGCTACCATTTTTGCTCTAAGCACTATGACTAGTTCTG
 TTCAGATTTACAATTTGCCAGAATATTCAGGAAGATGATCTTCAGCAGCTACAGCTCTTCACAGAATA
 TGGCCGCTGGCAATGGATGAAATTTCCAGAACTTTCCAGACATTAATGTTTTGGTTCCGAGACTGG
 AGTTTTCTTATGAATATAACTATGGACTGCAAGGAGGAATGTCGTTTTGGATAAGCGTTTACAGGTGA
 AGGAACATCAACATGAAGAAATTCAGAAGTTCGAAATCATATCACTCATGTTTCTCGGATGTCACCTG
 TTTTCTTACCACATCCAGGGCTCCAGGTGGCCACAAGCCCTGACTTTGATGGGAAATGAAAGATATT
 GCTAGTGAATTCAAAGAGCAGCTACAGACTCTAATACCATATGTACTAAACCCATCTAAGTTAATGGAGA
 AGGAGATCAATGGTTCAAAGTACCTGCCGGGGACTCTTGAATATTTAAGGCATATATTAATAATTTA
 CCAAGGAGAAGATCTGCCTACCCGAAATCCATGCTTCAGGCCACTGTGAAGCCAACAACCTGGCAGCC
 GCAGCCTCTGCCAAGACATTTACTACAGCAGCATGGAGGAGATTTGTGGGGGAGAGAAACCTTATTTGT
 CTCCAGACATTTTAGAAGAAAAGCACCAAGAATTCAAACAACCTTGCTCTGGACCATTTAAGAAGACCAA
 AAAGATGGGTGGGAAGGATTTTAGCTCCGTTACCAGCAGGAGCTAGAGGAGGAAATCACAGAAGTGTAT
 GAGAAGTCTGCAACACAATGGTAGCAAGAAGCTCTTCAGCACCTCCGAACCCCTGCAGTTCTGTTCA
 CAGGCATAGCTGTGTTGTACATAGCCTCGGGCTTAACCGCTTCATCGGGCTTGAGGTTGTGGCTCAGCT
 GTTCAACTGTATGGTTGGACTGCTGTTGATAGCACTCCTTACCTGGGGTACATCAGATACTCCGGGCGAG
 TATCTTGAGCTGGGTGGAGCTATTGACTCTGGTGCAGCGTATGTGTTAGAGCAGGCTTCTTCTCACATTG
 GTAATTCTACTCAGGCTGCCGTAAGAGATGCCATCGCTGGGAGACCACCTGCTGATAAAAAATCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202781 representing NM_001044241
 Red=Cloning site Green=Tags(s)

MDPRFYAVTGDAMENKPGPVQVVLVHKEQHSFELEERALASVLLQDHIRDLVVVVSVAGAFRKGKSF
 ILDFMLRYLYSQKEHGHSNWLGDPEEPLTGF SWRGGSDPETTGIIQIWEVFTVKKPCGKEVAVVLMDTQG
 AFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMFLVRDW
 SFPYEYNYGLQGGMSFLDKRLQVKEHQHEEQNVRNHIHSCFSDVTCFLLPHPGLQVATSPDFDGLKDI
 ASEFKEQLQTLIPYVLNPSKLMEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEANNLAA
 AASAKDIYSSMEEICGGEKPYLSPDILEEKHQEFKQLALDHFKKTKKMGGKDFSFYRQQELEEEITELY
 ENFCKHNGSKNVSTFRTPAVLFTGIAVLYIASGLTGF IGLEVVAAQLFNCMVGLLLIALLTWGYIRYSQ
 YLELGGAIDSGAAYVLEQASSHIGNSTQAAVRDAIAGRPPADKKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001044241

ORF Size: 1608 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_001044241.1](#), [NP_001037706.1](#)
RefSeq Size: 2050 bp

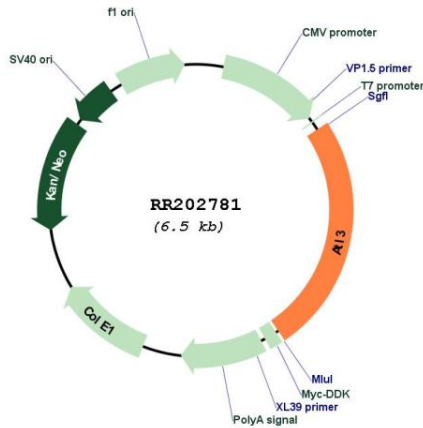
RefSeq ORF: 1611 bp

Locus ID: 309187

UniProt ID: [Q0ZHH6](#)

Cytogenetics: 1q43
MW: 60.2 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR202781