

Product datasheet for **MR219681**

Rtn3 (NM_001003933) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn3 (NM_001003933) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtn3
Synonyms:	RTN3-A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219681 representing NM_001003933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTGACTCTCCTCGTCGCTCCTCCGGGCGGAGCCGTCAG
 CTCTCGGCGGCGGCGGCGGGAGCCCTGGAGCCTGCCCGCCCTGGGGCGGAAGAGCTGCGGCTCCTCGTG
 TGGCGGGGATTGAGCTCTCTTTGCTCTGATGAGCCACCTTCAAAAAGTATGACTTCCTCCTTTCTTTCA
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 GACAGTTTCCCAGAGCAACCTGCTTTTCTGTCAAAGAAATTGGTCCAGCAGAAGAGTGGTAGTTAAAG
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 TAAGGCAGAACACATTTGTACATATTCTTGTCCCATCTGAAGTCCAGTAGCCAGTGTAGAAAAAGAT
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219681 representing NM_001003933
 Red=Cloning site Green=Tags(s)

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MAESSAATQSPSVSSSSSGAEPSALGGGGGSPGACPALGAKSCGSSCAAGLSSLCSDEPPSKSMTSSFLS
SSEIHNPDPPTPLGEKSETLGSQFVLAAGKDPLVLLDKKKLDSPQGTNKDRVDAPVSLATGIPCSHPSIP
DSFPEQPAFLSKEIGPAEEWVKDQEPKNPNKVPDGEDRSALDFGQSKAEHICTYSLSPSELPVASVEKD
SPESPFEVIIDKATFDREFKDL YKENPNDLGGWAAHGDRSPADLLEMNDKLFPLRNKEAGRYPSSVLLG
RQFSHTTAALAEVSRVNDMHNFTNEILTWDLDPQAKQQAANKTSCTTESTGLDRSELRSEIPVINLKTNP
QQKMPVCSFNGSTPITKSTGDWTEAFTEGKPVRYDLSSTKEAGNGVPGSSQLHSELPGSMPEKWWVSGS
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EMCENSEQPQAQ PETPTQK SLEGEVASQV PNTLNEVTPEKLDMTNPNKVC SAAPSVLNETGFS LTPAS
AKLESLLGKYVEDTDGSSPEDLMAVLTGAEKGI VDKKEGDVLEAVLEKIADFKNTLPVELLHESEL SGS
ETKNIKSKYSEDSRETTGGAPT MSPDLQEQLTIRAIKELGERQAEKVQDEGISSGGK LQTFAPQSGPQ
SSSDILEHTDVKTGSDLGIPKNPTI IKNTRIDSISSLTKTEMVNKNV LARLLSDFPVHDLIFWRDVKKTG
FVFGTTLIMLLSAAF SVISVSYLILALLSVTISFRVYKSVIQAVQKSEEGHPFKAYL DVDITLSSEAF
HNYMNAAMVHVNKALKLIIRLFLVEDLVDSLKLAVF MWM LTYVGVAVFNGITLLILAELLVFSVPIVYEK
KTQIDHYVGIARDQTKSIVEKIQA KLPGI AKKAE
  
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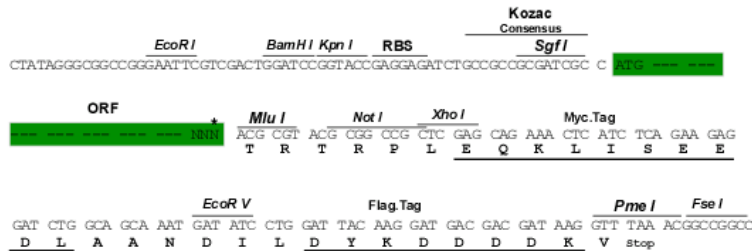
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



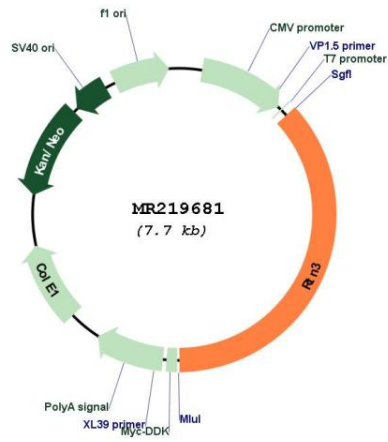
* The last codon before the Stop codon of the ORF

ACCN: NM_001003933

ORF Size: 2835 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_001003933.2 , NP_001003933.1
RefSeq Size:	4973 bp
RefSeq ORF:	2838 bp
Locus ID:	20168
UniProt ID:	Q9ES97
Cytogenetics:	19 A
MW:	102.4 kDa
Gene Summary:	May be involved in membrane trafficking in the early secretory pathway. Inhibits BACE1 activity and amyloid precursor protein processing. May induce caspase-8 cascade and apoptosis. May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress (By similarity). Induces the formation of endoplasmic reticulum tubules (PubMed:24262037).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219681