

Product datasheet for **MR220386**

Rnf7 (NM_011279) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf7 (NM_011279) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rnf7
Synonyms: Rbx2; SAG
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220386 representing NM_011279
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGACGTGGAGGACGGCGAGGAACCTGCGTCCTTTCTTCGCACTCCGGGAGCGCAGGCTCCAAGT
CGGGAGGCGACAAGATGTTCTCTCAAGAAGTGAACGCGGTAGCCATGTGGAGCTGGGACGTTGAGTG
CGATACCTGTGCCATCTGCAGGGTCCAGGTGATGGATGCCTTCGATGTCAAGCTGAAAACAAGCAA
GAGGACTGTGTTGGTCTGGGAGAGTGAACCATTCTCCACAAGTCTGCATGTCCCTGTGGGTGA
AACAGAACAATCGCTGCCCTCTGTGCCAGCAGGACTGGGTAGTCCAAGAATCGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220386 representing NM_011279
Red=Cloning site Green=Tags(s)
MADVEDGEEPCVLSHSGSAGSKSGGDKMFLKKNVAVMWSWDECDTCAICRVQVMDACLRCQAEKQ
EDCVVWGEENHSFHCCMSLWVKQNNRCPLCQQDWWVQRIGK

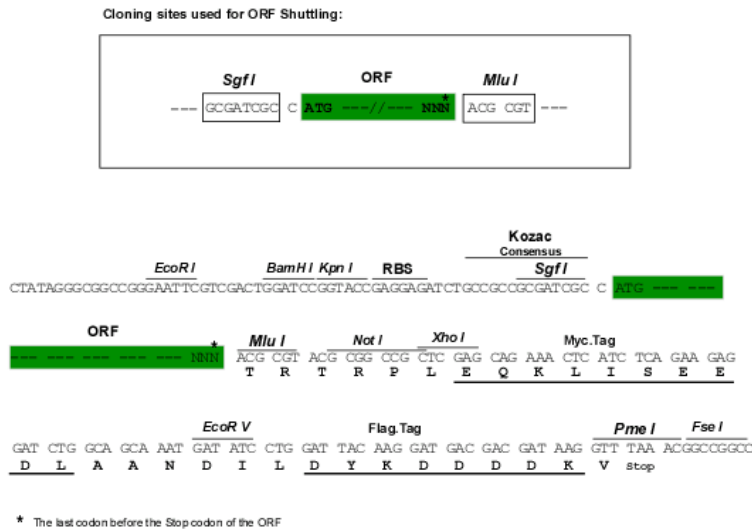
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9050_d07.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_011279

ORF Size: 342 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_011279.3](#), [NP_035409.1](#)

RefSeq Size: 1132 bp

RefSeq ORF: 342 bp

Locus ID: 19823

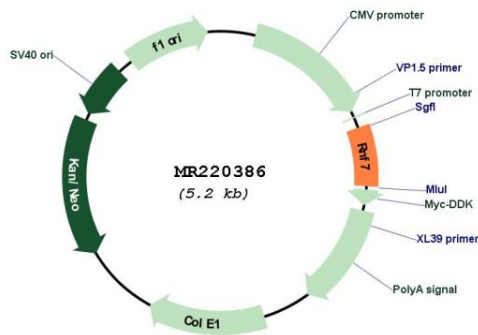
UniProt ID: [Q9WTZ1](#)

Cytogenetics: 9 E3.3

MW: 12.7 kDa

Gene Summary: Probable component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription (By similarity). CRLs complexes and ARIH1 collaborate in tandem to mediate ubiquitination of target proteins, ARIH1 mediating addition of the first ubiquitin on CRLs targets (By similarity). Through the RING-type zinc finger, seems to recruit the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. Promotes the neddylation of CUL5 via its interaction with UBE2F. May play a role in protecting cells from apoptosis induced by redox agents (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220386