

Product datasheet for RR213929

Rnf152 (NM_001106305) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf152 (NM_001106305) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rnf152
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213929 representing NM_001106305
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGACGCTCTCCCAGGATCCCTGCTGGAATGTCAGATATGTTTTAATTATTACAGCCCCGACGAA
 GGCCCAAGTTGCTGGATTGCAAGCACACCTGCTGCTCAGTGTGCCTCCAGCAGATGAGGACCAGCCAGAA
 GGACGTAAGGTGTCCTGGTGCCGTGGCATACCAAGTTGCCCGGGCTTCTGTATCACAGCTGCC
 GATGATCCTGAGGTCTTGCGGTCATCGCCATACCACACACTCCGAGCACACCCAGTCTTCATCAAAC
 TTCCAAGCAATGGGTGCTACATGCTGCCCTGCCATCTCTAAAGAGCGTACACTCCTGCCGGGAGACAT
 GGGCTGCCGCTGCTGCCAGGGAGCCAGCAGAAGTCTCTCACTGTGGTACCATCCCTGCAGAGCAGCAG
 CCCCTGCAGGGTGGAGCTCCCCAGGAGCCGTGGAGGAGGCCTGACAGACGGGCGTGCGAAGAGTT
 CCACGTGGTCTGGCGTGTCACTGTCATCCTGGTGGCCTGTGTGGTCTTCTTCTGGGCATTGTGCT
 ACACAACATGCTCGATCTCTAAGCGTTTCACTGTTATATCCTGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213929 representing NM_001106305
Red=Cloning site Green=Tags(s)

METLSQDSLLEQCICFNYYSPRRPKLLDCKHTCCSVCLQQMRTSQKDVRCPWCRGITKLPFGFSVSQLP
 DDPEVLAVIAIPHTSEHTPVFIKLPNSGCYMLPLPISKERTLLPGDMGCRLLPGSQKSLTVVTIPAEQQ
 PLQGGAPQEAVEEPPDRRGVAKSSTWSGVCTVILVACVLVFLLGIVLHNMSCISKRFTVISC

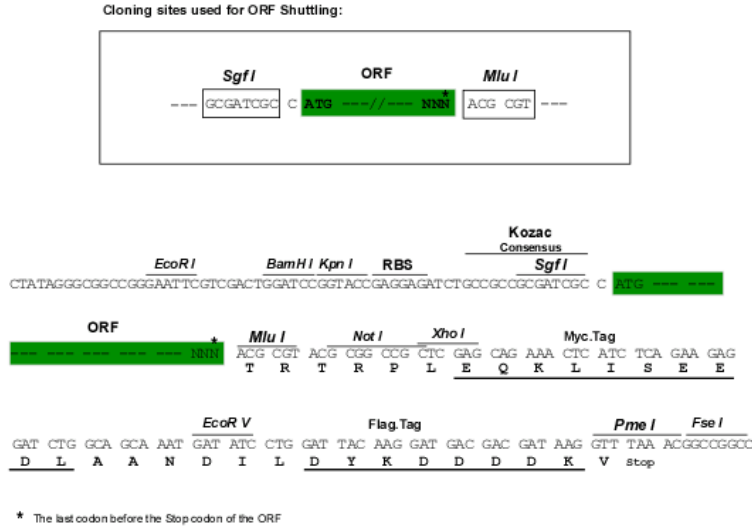
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

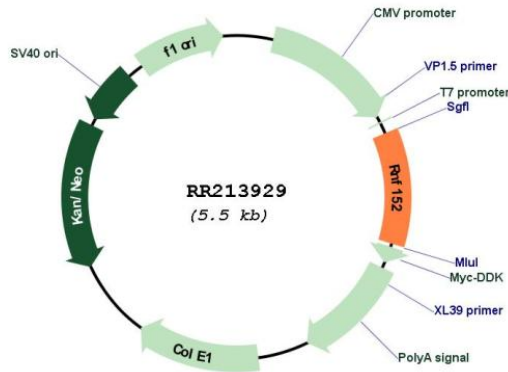


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001106305

ORF Size: 609 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:	<u>NM_001106305.1, NP_001099775.1</u>
RefSeq Size:	5494 bp
RefSeq ORF:	612 bp
Locus ID:	293561
UniProt ID:	<u>D4A723</u>
Cytogenetics:	13p11
MW:	22.4 kDa
Gene Summary:	E3 ubiquitin-protein ligase mediating 'Lys-63'-linked polyubiquitination of RRAGA in response to amino acid starvation. Thereby, regulates mTORC1 signaling and plays a role in the cellular response to amino acid availability. Also mediates 'Lys-48'-linked polyubiquitination of target proteins and their subsequent targeting to the proteasome for degradation. Induces apoptosis when overexpressed.[UniProtKB/Swiss-Prot Function]