

Product datasheet for **RC239868**

RNF40 (NM_001286572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF40 (NM_001286572) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF40
Synonyms:	BRE1B; RBP95; STARING
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239868 representing NM_001286572 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGGCCAGGCAACAAACGCGCCGCCGCGACGGGGGCTCAGGGCCCCGAAAAGAAGCTGAGTC
GTGAGGAGAAGACCACGACTCTTATCGAGCCATTCTGTTGGAGGCATCTTCCACGGAGGAGAT
GGACCTGAAGGTACTACAGTTCAAGAACAAGAACTGGCAGAGCGGCTGGAACAACGGCAGGCTTGTGAA
GATGAACCTCCGAGAACAATTGAGAAGTTGAGAAGCGGCAGGCCACAGATGATGCCACACTCCTCATCG
TCAATCGCTACTGGGCCAGCTGGATGAACTGTGGAAGCCCTTCTCCGATGCCATGAGAGCCAGGGGGA
GCTGTCTTCAGCGCCTGAGGCACCTGGGACCCAGGAGGGGCCAATGTGATGGGACTCCTCTCCAGAG
CCGGGGACATCAGAGCTGAGAGACCCCTTGCTGATGCAGCTGCGGCCCTCTCAGTGAGCCGGCCTTGG
CTTTTGTGGTGGCACTGGGTGCCAGCAGCAGTGAAGAGGTGGAGCTGGAGCTGCAAGGCCGAATGGAGTT
CTCCAAGGCAGCTGTGTCTCGTGTGGTAGAGGCCTCAGACCGCTACAGCGCCGGGTGGAGGAATCTGT
CAGCGAGTGTACAGCCGAGGGGACAGTGAAGCCCTCAGTGAGGCGGCTCAGGCACACACCCGAGAGCTGG
GCCGTGAGAACCAGGCGACTGCAGGACTTGCCACTCAGCTGCAGGAGAAACACACCGCATCTCATTGGA
GTACTCCGAGCTCCAGGATAAAGTGACATCGGCAGAGACCAAGGTGCTGGAGATGGAGACAACAGTGGAG
GACTTGCAGTGGGACATCGAGAAGCTGCGGAAGCGAGAGCAAAAGCTCAATAAGCACCTGGCAGAGGCCCT
TAGAGCAGCTTAACCTCTGGCTACTATGTATCTGGGAGCTCTCAGGCTTCCAGGGGGCCAGATCACACT
CAGCATGCAGAAGTTTGAGATGCTGAATGCAGAGTTAGAGGAAAACAGGAAGTGGCCAACAGCCGTATG
GCAGAGCTGGAGAACTGCAGGCCGAATTCAGGGGGCTGTGCGGACCAATGAGCGCCTCAAGGTGGCCC
TGCGGAGCCTTCTGAGGAGGTAGTGGGGAGACGGGGGAGTACCGCATGCTGCAGGCCAATTCTCACT
GCTCTACAACGAGTCTCTGCAAGTGAAGACCCAGCTAGACGAGGCTCGGGGCTGCTGCTGGCCACAAG
AACTCCACCTGCGACACATCGAGCACATGGAGAGCGACGAGCTGGGGCTGCAGAAGAAGCTACGCACAG
AGGTCATTGAGTGGAGGACACGCTGGCCAGGTACGCAAGGAGTATGAGATGCTGCGCATCGAGTTTGA
GCAGAATCTGGCGCCAACGAGCAGGCGGGGCCATCAACCGTGAGATGCGCCACCTGATTAGTAGTCTT



[View online »](#)

CAAAACCAACAACCACAGCTAAAAGGGGACGCCAGCGATACAAGCGGAAGCTTCGAGAAGTACAAGCTG
 AGATTGGCAAGCTCCGGGCCAGGCCAGTGGCTCTGCCACTCCACCCCAACCTGGGCCACCCAGAGGA
 TTCTGGCGTCAGTGCCCCAGCCCAGGGAAAGAGGAGGTGGGCCAGGCCCTGTCAGTACCCCGACAAC
 AGAAAGGAGATGGCTCCAGTGCTGGCACCACCACTACTACCACTTCAGTGAAGAAGGAGAGCTGGTCC
 CCTCTGAAGAGGACTTCCAGGGTATAACCCCTGGGGCCAGGGCCCTTCTCCGGGGCCGAGAACCTGA
 GGCCAGGCCCAAGCGGGAGCTTCGGGAACGGGAAGGTCCCAGCCTAGGACCTCCACCTGTAGCCTCCGCT
 CTCTCAAGGGCTGATCGGGAGAAGGCCAAGGTGGAAGAAACCAAGCGGAAGGAATCAGAACTCCTCAAGG
 GTCTCCGAGCAGAGCTCAAGAAGGCCCAGGAGAGCCAGAAGGAGATGAAACTGCTGGATATGTACAA
 GTCAGCGCCCAAGGAGCAGCGGGATAAGGTGCAGCTCATGGCAGCGGAACGAAGGCTAAGGCCGAGGTT
 GATGAGCTGCGGAGCCGCATCCGGGAATTGGAGGAGAGGGATCGAAGGGAGAGCAAGAAGATCGCGGATG
 AGGATGCCCTGCGGCGCATTCGGCAGGCAGAGGAGCAGATAGAACACCTGCAGCGCAAGCTGGGTGCCAC
 CAAGCAGGAGGAGGAGGCTCTGCTCTCAGAGATGGATGTGACAGGTGAGGCTTTTGGAGACATGCAGGAA
 CAGAACGGGCGGCTGCTACAGCAGTTGCGGGAAAAGGATGATGCCAACTTAAAGCTAATGTCAGAGCGGA
 TCAAGGCCAACAGATTACAAGCTGCTGCGGGAGGAGAAGGATGAGTTGGCGAGCAGGTCCTTGGCCT
 CAAGTCCCAGGTGGATGCCAGCTGCTGACTGTGCAGAAGCTGGAGGAGAAGGAGCGAGCCTTGCAGGGC
 AGCCTCGGGGGTGTGGAGAAGGAGCTGACGCTGCGCAGCCAAGCCCTGGAGCTCAACAAGCGGAAGGCTG
 TAGAAGCCGCCAGCTGGCCGAGGACCTGAAGGTGCAGCTGGAGCACGTGCAGACTCGGCTGCGGGAGAT
 CCAGCCCTGCCTGGCAGAGAGCCGGGCTGCTCGTGAGAAAAGAGAGCTTCAACCTCAAGAGGGCTCAGGAG
 GACATCTACGGCTGCGGCGCAAGCTGGAAAAGCAGAGGAAGGTGGAGGTCTACGCAGATGCCGACGAAA
 TCCTCCAGGAGGAGATCAAGGAGTACAAGGCGCGGTTGACCTGCCCTGCTGTAAACCCGCAAGAAGGA
 TGCAGTCTTACCAAGTGCTTCCACGTTTTCTGCTTCGAGTGCCTGCGGGGCCGCTATGAGGCCCGCCAG
 AGGAAGTGCCCAAGTGAACGCGGCCTTTGGTGCCACGACTTCCATCGTATCTACATCAGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RC239868 representing NM_001286572
 Red=Cloning site Green=Tags(s)

MSGPGNKRAAGDGGSGPPEKKLSREEKTTTTLIEPIRLGGISSTEEMDLKVLQFKNKKLAERLEQRQACE
 DELRERIEKLEKQATDDATLLIVNRYWAQLDETVEALLRCHESQGELSSAPEAPGTQEGPTCDGTPLPE
 PGTSELRDPLLMQLRPPLSEPALAFVVALGASSSEVELELQGRMEFSKAAVSRVVEASDRLQRRVEELC
 QRVYSRGDSEPLSEAAQAHTRELGRENRRLQDLATQLQEKHHRLSLEYSELQDKVTSAETKVLEMETTVE
 DLQWDIEKLRKREQKLNKHLAEALEQLNSGYVYSGSSGFQGGQITLSMQKFEMLNAELENQELANSRM
 AELEKLQAEQGAVRTNERLKVALRSLPEEVVRETGEYRMLQAQFSLLYNESLQVKTQLDEARGLLLATK
 NSHLRHIEHMEDELGLQKKLRTEVIQLEDTLAQVRKEYEMLRIEFEQNLAANEQAGPINREMRHLISSL
 QNHNNHLKGDAQRYKRKLREVQAEIGKLRAQASGSAHSTPNLGHPEDSGVSAPAPGKEEGGPGVPSTPDN
 RKEMAPVPGTTTTTTSVKKEELVPSEEDFQGITPGAQGPSSRGREPEARPKRELREREGPSLGPPPVASA
 LSRADREKAKVEETKRKESELLKGLRAELKKAQESQKEMKLLLDMYKSAPKEQRDKVQLMAAERKAKAEV
 DELRSRIELEERDRRESKKIADEDALRRIRQAEEQIEHLQRKLGATKQEEEALLSEMDVTGQAFEDMQE
 QNGRLLQQLREKDDANFKLMSERIKANQIHKLLREEKDELGEQVLGLKSQVDAQLLTVQKLEEKERALQG
 SLGGVEKELTLRSQALELNKRKAVEAAQLAEDLKVQLEHVQTRLREIQPCLAESRAAREKESFNLKRAQE
 DISRLRRKLEKQKVEVYADAEILQEEIKEYKARLTCPCCNTRKKDAVLTKCFHVFCFECVRGRYEARQ
 RKCPKCNAAFGAHDFHRIYIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001286572

ORF Size: 3003 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001286572.2](#), [NP_001273501.1](#)

RefSeq Size: 5396 bp

RefSeq ORF: 3006 bp

Locus ID: 9810

UniProt ID: [O75150](#)

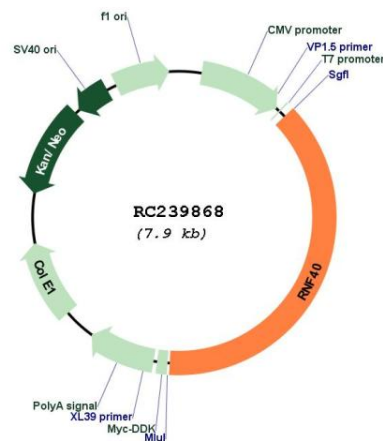
Cytogenetics: 16p11.2

Protein Families: Druggable Genome

MW: 114.1 kDa

Gene Summary: The protein encoded by this gene contains a RING finger, a motif known to be involved in protein-protein and protein-DNA interactions. This protein was reported to interact with the tumor suppressor protein RB1. Studies of the rat counterpart suggested that this protein may function as an E3 ubiquitin-protein ligase, and facilitate the ubiquitination and degradation of syntaxin 1, which is an essential component of the neurotransmitter release machinery. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

Product images:



Circular map for RC239868