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Product datasheet for RC234595

RNF22 (TRIM3) (NM_001248007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF22 (TRIM3) (NM_001248007) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF22
Synonyms:	BERP; HAC1; RNF22; RNF97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC234595 representing NM_001248007
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACGATGGAGTTTTACTGTGAGGCCTGTGAGACGGCCATGTGTGGTGAGTGCCGCGCCGGGGAGC
ATCGTGAGCATGGCACAGTGCTGCTGAGGGATGTGGTGGAGCAGCACAAGGCGGCCCTGCAGCGCCAGCT
CGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCCGCAGCAATTGCCTTAGTCGGGGGCATCAGCCAGCAG
CTGCAGGAGCGCAAGGCAGAGGCCCTGGCCCAGATCAGTGCAGCGTTCGAGGACCTGGAGCAAGCACTGC
AGCAGCGCAAGCAGGCTCTGGTCAGCGACCTGGAGACCATTTGTGGGGCCAAACAGAAGGTGTTGCAAAG
CCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCAGGCACTG
CGCCTGGGCTCGGCCCCGGAGGTGTTGCTGGTGCGCAAGCACATGCGAGAGCGGCTGGCTGCATTGGCGG
CACAGGCCTTCCCGGAGCGGCCACATGAGAATGCACAGCTGGAACTGGTCCTTGAGGTGGACGGTCTGCG
GCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGCCACGGGA
GAGGGCCTGCGCCAGGCGCTAGTGGGCCAGCCTGCCTCGCTCACTGTCACTACCAAAGACAAGGACGGGC
GGTTGGTGCGCACAGGCAGCGCTGAGCTGCGTGCAGAGATCACCGGCCCGGACGGCACGCGCCTTCCGGT
GCCAGTGGTGGACCACAAGAATGGCACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGAGCTGCTC
CTCTCGGTGCTGCTCTACGGACAGCCAGTGCGCGGCAGCCCCTTCCGCGTGCGTGCCCTGCGTCCGGGGG
ACCTGCCACCTTCCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGCCCCGGCAGCCATGTGCG
CCAGAAGGCAGTGCGTAGGCCCAGCTCCATGTACAGCACAGGCGGCAAACGAAAGGACAACCCAATTGAG
GATGAGCTCGTCTTCCGTGTTGGCAGTCGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAAGGTGTGT
CCGCAGCCAGCAGCGGCCGCATCGTGGTAGCAGACAGCAACAACCAGTGTATTCAGGTTTTCTCCAATGA
GGGCCAGTTCAAGTTCCGTTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCCCACAGGTGTG
GCAGTGGACACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTCAGCATCTTCTCCCCTG
AGGGCAAGTTCAAGACCAAGATTGGAGCTGGCCGCCTCATGGGCCCCAAGGGAGTGGCCGTAGACCGGAA
TGGACATATCATTGTGGTCGACAACAAGTCTTGCTGCGTCTTTACCTTCCAGCCCAATGGCAAACTGGTT
GGCCGTTTTGGGGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCCATTTTGTGGCTGTGAACAACA
AGAATGAAATTGTAGTAACGGACTTCCATAACCATTCAGTGAAGGTGTACAGTGCCGATGGAGAGTTCCT
CTTCAAGTTTGGCTCCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCCACAGGAGTAGCTGTGGACTCC
AATGGAAACATCATTGTGGCTGACTGGGGCAACAGCCGCATCCAGGTATTCGACAGCTCTGGCTCCTTCC
TGTCCTATATCAACACATCTGCAGAACCACTGTATGGTCCACAGGGCCTGGCACTGACCTCGGATGGCCA
TGTGGTGGTGGCTGATGCTGGCAACCACTGCTTTAAAGCCTATCGCTACCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

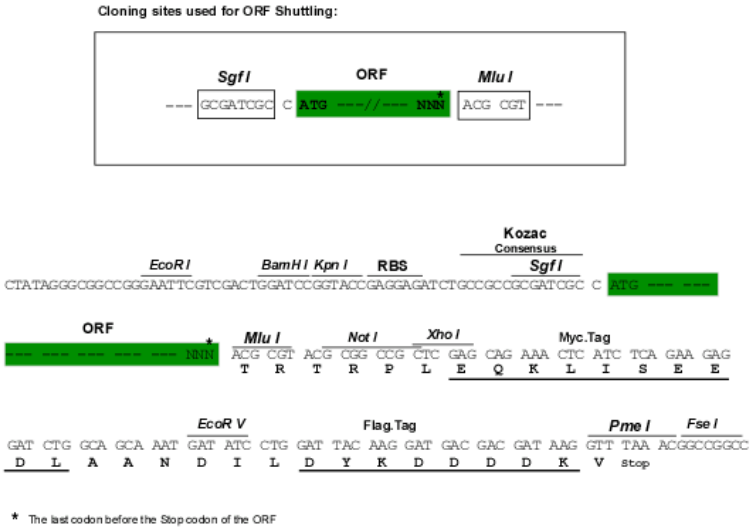
>RC234595 representing NM_001248007
Red=Cloning site Green=Tags(s)

MKTMEFYCEACETAMCGECRAGEHREHGTVLLRDVVEQHKAALQRQLEAVRGRLPQLSAAIALVGGISQQ
LQERKAEALAQISAAFEDLEQALQQRKQALVSDLETICGAKQKVLQSQLDTLRQGQEHIGSSCSFAEQAL
RLGSAPEVLLVRKHMRERLAALAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATG
EGLRQALVGQPASLTVTTKDKDGRLVRTGSAELRAEITGPDGTRLPVPVVDHKNGTYELVYTARTEGELL
LSVLLYGQPVRGSPFRVRALRPGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKDNPIE
DELVFRVGSRGREKGEFTNLQGVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVRGRSPGQLQRPTGV
AVDTNGDIIVADYDNRWVSIFSPEGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVFTFQPNGKLV
GRFGGRGATDRHFAGPHFVAVNNKNEIVVTDFHNHSVKVYSADGEFLFKFGSHGEGNGQFNAPTGVAVDS
NGNIIVADWGNSRIQVFDSSGSFLSYINTSAEPLYGPQGLALTSDGHVVVADAGNHCFKAYRYLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001248007

ORF Size: 1875 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_001248007.1, NP_001234936.1

RefSeq Size: 2730 bp

RefSeq ORF: 1878 bp

Locus ID: 10612

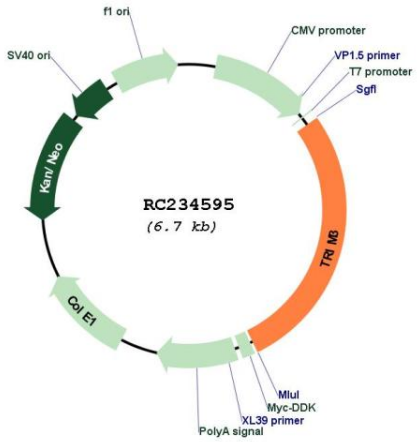
UniProt ID: O75382

Cytogenetics: 11p15.4

MW: 68.2 kDa

Gene Summary: The protein encoded by this gene is a member of the tripartite motif (TRIM) family, also called the 'RING-B-box-coiled-coil' (RBCC) subgroup of RING finger proteins. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein localizes to cytoplasmic filaments. It is similar to a rat protein which is a specific partner for the tail domain of myosin V, a class of myosins which are involved in the targeted transport of organelles. The rat protein can also interact with alpha-actinin-4. Thus it is suggested that this human protein may play a role in myosin V-mediated cargo transport. Alternatively spliced transcript variants encoding the same isoform have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234595