

Product datasheet for **RG211739**

RNF22 (TRIM3) (NM_006458) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF22 (TRIM3) (NM_006458) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF22
Synonyms:	BERP; HAC1; RNF22; RNF97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211739 representing NM_006458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTGGTATGCAGCA
 TCTGCCTGGATCGGTACCAAGTTCCTTCCCTGCACACCTTCTGTGAGAGATGTCTCCA
 AACTATATCCCTGCCAGACCTGACGCTATCCTGTCCAGTATGCCGGCAGACGTCATCCTCCAGAG
 CAGGGCGTCTCGGCACTGCAACAACCTTCTTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTG
 ATGGGGCCACGACCCGGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCTGCCCAA
 CCATGAAGGCAAGACGATGGAGTTTTACTGTGAGGCTGTGAGACGGCCATGTGTGGTGTGAGTCCGCGCC
 GGGGAGCATCGTGTGAGTGGCAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAGGCGGCCCTGCAGC
 GCCAGCTCGAGGCTGTGCTGAGGCGATTGCCACAGCTGTCCGAGCAATTGCCTTAGTCGGGGGCATCAG
 CCAGCAGCTGCAGGAGCGCAAGGCAGAGGCCCTGGCCAGATTAGTGCAGCGTTCGAGGACCTGGAGCAA
 GCACTGCAGCAGCGCAAGCAGGCTCTGGTCAAGCAGCTGGAGACCAATTTGTGGGGCCAAACAGAAGGTGT
 TGCAAAGCCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCA
 GGCACTGCGCCTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAAGCAGTGCAGAGCGGCTGGTGTGA
 TTGGCGGCACAGGCTTCCCGGAGCGGCCACATGAGAAATGCACAGCTGGAAGTGGTCTTGGAGTGGACG
 GTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGC
 CACGGGAGAGGGCTGCGCCAGGCGCTAGTGGGCCAGCCTGCCTCGTCACTGTCACTACCAAGACAAG
 GACGGGCGGTTGGTGCACAGGCGAGCCTGAGCTGCGTGCAGAGATCACCGCCCGGACGGCACGCGCC
 TTCCAGTGCCAGTGGTGGACACAAGAATGGCACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGA
 GCTGCTCCTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCCGGTGCGTGCCTGCGT
 CCGGGGACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGCCCGGACGCC
 ATGTGCGCCAGAAGGCAAGTGCAGTGGCCAGCTCCATGTACAGCAGAGCGGCAACGAAAGGACAACCC
 AATTGAGGATGAGCTCGTCTTCCGTGTTGGCAGTGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAA
 GGTGTGTCGCGAGCCAGCAGCGGCCGATCGTGGTAGCAGACAGCAACAACAGTGTATTCAGGTTTTCT
 CCAATGAGGGCCAGTTCAAGTCCGTTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCCCAC
 AGGTGTGGCAGTGGACACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTC
 TCCCTGAGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAG
 ACCGGAATGGACATATCATTGTGGTGCACAACAAGTCTTGTGCTGCTTTACCTCCAGCCCAATGGCAA
 ACTGTTGGCCGTTTTGGGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCAATTTGTGGTGTG
 AACAAAGAAGTGAATGTAGTAACGGACTTCCATAACCAATTCAGTGAAGGTGTACAGTCCGATGGAG
 AGTTCTCTTCAAGTTGGCTCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGCTGT
 GGACTCCAATGGAACATCATTGTGGCTGACTGGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGC
 TCCTTCTGTCTATATCAACACATCTGCAGAACCAGTGTATGGTCCACAGGGCCTGGCACTGACCTCGG
 ATGGCCATGTGGTGGTGGCTGATGCTGGCAACCAGTCTTAAAGCCTATCGCTACCTCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211739 representing NM_006458
 Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMQKQFLVCSICLDTRYQCPKVL PCLHTFCERCLQNYIPAQSL TLSCPVCRQTSILPE
 QGVSALQNNFF I SSLMEAMQAPDGAHPEDPHPL SVVAGRPL SCPNHEGKTM EFYCEACETAMCGECRA
 GEHREHGTVLLRDVVEQHKAAALQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAEALAQI SAAFEDLEQ
 ALQQRKQALVSDLETICGAKQKVLQSQDLTLRQGQEHIGSSCSFAEQALRLGSAPEVLLVRKHMRLAA
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK
 DGRLVRTGSAELRAEITGPDGTRL PVPVVDHKNGT YELVYTARTEGELL SVLLYGQPVGRSPFRVRLR
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGRGREKGEFTNLQ
 GVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVD TNGDIIVADYDNRWVSIF
 SPEGKFKTKIGAGRLMGPKGVAVDNRNGHIIVVDNKSCCVTFQPNGKLVGRFGGRGATDRHFAGPHFVAV
 NNKNEIVVTD FHNH SVK VYSADGEFLFKFGSHGEGNGQFNAPT GVAVDSNGNIIIVADWGN SRIQVFDSSG
 SFLSYINTSAEPLYGPGQLAL TSDGHVVADAGNHCFKAYRYLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006458

ORF Size: 2232 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_006458.2](#), [NP_006449.2](#)

RefSeq Size: 3059 bp

RefSeq ORF: 2235 bp

Locus ID: 10612

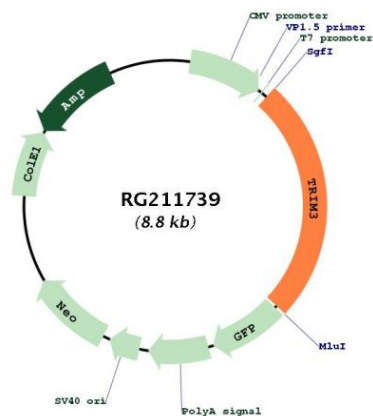
UniProt ID: [O75382](#)

Cytogenetics: 11p15.4

Domains: zf-B_box, NHL, Filamin, RING, BBC

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 RG211739