

Product datasheet for **RC211928**

RNF22 (TRIM3) (NM_033278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF22 (TRIM3) (NM_033278) 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)



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ORF Nucleotide
Sequence:

>RC211928 representing NM_033278
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTGGTATGCAGCA
TCTGCCTGGATCGGTACCAAGTTCCTTCCTTGCTGCACACCTTCTGTGAGAGATGTCTCCA
AAACTATATCCCTGCCAGACCTGACGCTATCCTGTCCAGTATGCCGGCAGACGTCCATCCTCCCAGAG
CAGGGCGTCTCGGCACTGCAACAACCTTCTTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTG
ATGGGGCCACGACCCGGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCTGCCCAA
CCATGAAGGCAAGACGATGGAGTTTACTGTGAGGCTGTGAGACGGCCATGTGTGGTGTGAGTCCCGGCC
GGGAGCATCGTGTGAGTGGCAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAGGGCCCTGCAGC
GCCAGCTCGAGGCTGTGCTGGCCGATTGCCACAGCTGTCCGAGCAATTGCCTTAGTCGGGGGCATCAG
CCAGCAGCTGCAGGAGCGCAAGGCAGAGCCCTGGCCAGATCAGTGCAGCGTTCGAGGACCTGGAGCAA
GCACTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACCTGGAGACCAATTTGTGGGGCCAAACAGAAGGTGT
TGCAAAGCCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCA
GGCACTGCGCCTGGGCTCGGCCCGAGGTGTTGCTGGTGCAGCAAGCAGTGCAGAGCGGCTGGCTGCA
TTGGCGGCACAGGCCCTCCCGGAGCGGCCACATGAGAAATGCACAGCTGGAAGTGGTCTTGGAGTGGACG
GTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGC
CACGGGAGAGGGCTGCGCCAGGCGCTAGTGGCCAGCCTGCCTCGTCACTGTCACTACCAAGACAAG
GACGGGCGGTTGGTGCACAGGCGAGCTGAGCTGCGTGCAGAGATCACCGCCCGGACGGCACGGCCGCA
TTCCGGTGCCAGTGGTGGACCAAGAATGGCACATATGAGCTAGTGTACACAGCGGCACGGAAGGCGCA
GCTGCTCCTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCGGGTGCTGCTGCTGCT
CCGGGGGACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGCCCGGCAGCC
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GGTGTGTCAGCCAGCAGCGGCCGATCGTGGTAGCAGACAGCAACAACCAAGTGTATTCAGGTTTTCT
CCAATGAGGGCCAGTTCAGTTCCTGTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCAC
AGGTGTGGCAGTGGACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTGGGTGAGCATCTTC
TCCCTGAGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAG
ACCGGAATGGACATATCATTGTGGTGCACAACAAGTCTTGTGCTGCTTTACCTTCCAGCCCAATGGCAA
ACTGTTGGCCGTTTTGGGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCAATTTGTGGTGTG
AACAAAGAAGTGAATGTAGTAACGGACTTCCATAACCAATTCAGTGAAGGTGTACAGTCCGATGGAG
AGTTCTCTTCAAGTTGGCTCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGCTGT
GGACTCCAATGGAACATCATTGTGGCTGACTGGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGC
TCCTTCTGTCTATATCAACACATCTGCAGAACCAGTGTATGGTCCACAGGGCCTGGCACTGACCTCGG
ATGGCCATGTGGTGGTGGCTGATGCTGGCAACCAGTCTTAAAGCCTATCGCTACCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211928 representing NM_033278
Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMQKQFLVCSICLDRYQCPKVL PCLHTFCERCLQNYIPAQSL TLSCPVCRTSILPE
 QGVSAIQNNFF ISSLMEAMQAPDGAHPDPHPL SVVAGRPL SCPNHEGKTMEFYCEACETAMCGECRA
 GEHREHGTVLLRDVVEQHKAAALQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAEALAQI SAAEFEDLEQ
 ALQQRKQALVSDLETICGAKQKVLQSQDLTLRQGEHIGSSCSFAEQALRLGSAPEVLL VRKHMRRERLAA
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK
 DGRLVRTGSAELRAEITGPDGTRL PVPVVDHKNGTYEL VYTARTEGELLSVLL YGQPVRGSPFRVRALR
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGSRGREKGEFTNLQ
 GVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF
 SPEGKFKTKIGAGRLMGPKGVAVDNRNGHIIVVDNKSCCVTFQPNGKLVGRFGGRGATDRHFAGPHFVAV
 NNKNEIIVTDFHNHNSVKVVSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIIVADWGNRIQVFDSSG
 SFLSYINTSAEPLYGPGQLALTSDGHVVADAGNHCFKAYRYLQ

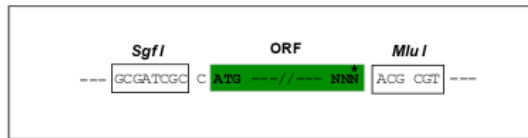
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6261_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033278

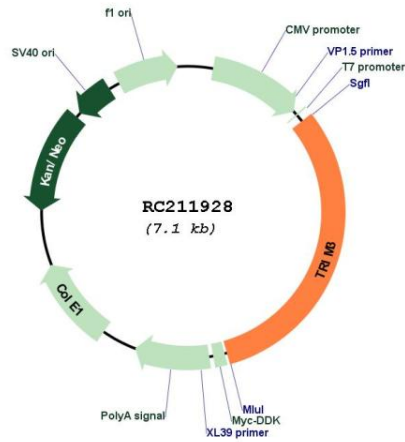
ORF Size: 2232 bp

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](#)

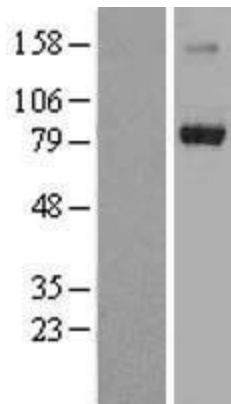
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_033278.4
RefSeq Size:	2894 bp
RefSeq ORF:	2235 bp
Locus ID:	10612
UniProt ID:	O75382
Cytogenetics:	11p15.4
Domains:	zf-B_box, NHL, Filamin, RING, BBC
MW:	80.6 kDa
Gene Summary:	<p>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]</p>

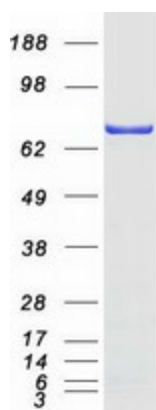
Product images:



Circular map for RC211928



Western blot validation of overexpression lysate (Cat# [LY409625]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211928 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM3 protein (Cat# [TP311928]). The protein was produced from HEK293T cells transfected with TRIM3 cDNA clone (Cat# RC211928) using MegaTran 2.0 (Cat# [TT210002]).