

## Product datasheet for **RC211739**

### **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:	Myc-DDK
Symbol:	RNF22
Synonyms:	BERP; HAC1; RNF22; RNF97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC211739 representing NM\_006458  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTGGTATGCAGCA  
TCTGCCTGGATCGGTACCAAGTTCCTTCCTTGCTGCACACCTTCTGTGAGAGATGTCTCCA  
AAACTATATCCCTGCCAGACCTGACGCTATCCTGTCCAGTATGCCGGCAGACGTCATCCTCCCAGAG  
CAGGGCGTCTCGGCACTGCAACAACCTTCTTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTG  
ATGGGGCCACGACCCGGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCTGCCCAA  
CCATGAAGGCAAGACGATGGAGTTTTACTGTGAGGCTGTGAGACGGCCATGTGTGGTGTGAGTCCGCGCC  
GGGAGCATCGTGTGAGCATGGCACAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAGGCGGCCCTGCAGC  
GCCAGCTCGAGGCTGTGCTGGCCGATTGCCACAGCTGTCCGAGCAATTGCCTTAGTCGGGGGCATCAG  
CCAGCAGCTGCAGGAGCGCAAGGCAGAGCCCTGGCCAGATTAGTGCAGCGTTCGAGGACCTGGAGCAA  
GCACTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACCTGGAGACCAATTTGTGGGGCCAAACAGAAGGTGT  
TGCAAAGCCAGCTGGACACACTGCGCCAGGGTCAAGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCA  
GGCACTGCGCCTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAAGCACATGCGAGAGCGGCTGGCTGCA  
TTGGCGGCACAGGCCCTCCCGGAGCGGCCACATGAGAAATGCACAGCTGGAAGTGGTCTTGGAGTGGACG  
GTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGC  
CACGGGAGAGGGCTGCGCCAGGCGCTAGTGGCCAGCCTGCCTCGTCACTGTCACTACCAAAGACAAG  
GACGGGCGGTTGGTGCACAGGCGAGCCTGAGCTGCGTGCAGAGATCACCGCCCGGACGGCACGGCCGCA  
TTCCAGTGCCAGTGGTGGACCAAGAATGGCACATATGAGCTAGTGTACACAGCGGCACGGAAGGCGCA  
GCTGCTCCTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCGGGTGCTGCGCCTGCGT  
CCGGGGGACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGCCCGGCAGCC  
ATGTGCGCCAGAAGGCAAGTGCAGTGGCCAGCTCCATGTACAGCACAGGCGGCAACGAAAGGACAACCC  
AATTGAGGATGAGCTCGTCTTCCGTGTTGGCAGTGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAA  
GGTGTGTCGCGAGCCAGCAGCGGCCGATCGTGGTAGCAGACAGCAACAACCAAGTGTATTCAGGTTTTCT  
CCAATGAGGGCCAGTTCAAGTTCGGTTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCCCAC  
AGGTGTGGCAGTGGACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTC  
TCCCTGAGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAG  
ACCGGAATGGACATATCATTGTGGTGCACAACAAGTCTTGTGCTGCTTTACCTTCCAGCCCAATGGCAA  
ACTGTTGGCCGTTTTGGGGCCGTTGGGCCACTGACCGCCACTTTGCAGGGCCCAATTTGTGGTGTG  
AACAAAGAAGTGAATGTAGTAACGGACTTCCATAACCAATTCAGTGAAGGTGTACAGTCCGATGGAG  
AGTTCTCTTCAAGTTGGCTCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGCTGT  
GGACTCCAATGGAACATCATTGTGGCTGACTGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGC  
TCCTTCTGTCTATATCAACACATCTGCAGAACCAGTGTATGGTCCACAGGGCCTGGCACTGACCTCGG  
ATGGCCATGTGGTGGTGGCTGATGCTGGCAACCAGTCTTAAAGCCTATCGCTACCTCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211739 representing NM\_006458  
Red=Cloning site Green=Tags(s)

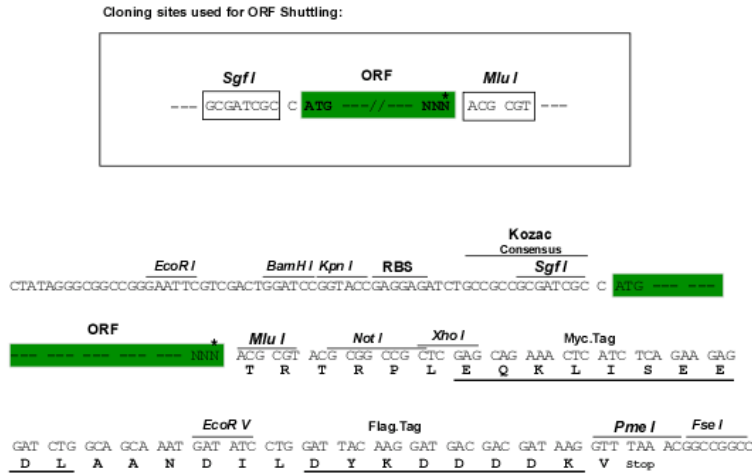
MAKREDSPGPEVQPMQKQFLVCSICLDRYQCPKVL PCLHTFCERCLQNYIPAQSL T LSCPVC RQTSILPE  
 QGVSA LQNNFF I SSLMEAMQ QAPDGAHPEDPHPL SVVAGRPL SCPNHEGKTMEFYCEACETAMCGECRA  
 GEHREHGT VLLRDVVEQHKAA LQRQLEAVRGRLPQLSAAIAL VGGISQQLQERKAEALAQI SAAEFEDLEQ  
 ALQQRKQAL VSDLETICGAKQKVLQSQ LDTLRQGEHIGSSCSFAEQALRLGSAPEVLL VRKHMRRERLAA  
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK  
 DGRLVRTGSAELRAEITGPDGTRL PVPVVDHKNGTYEL VYTARTEGELL LSVLLYQGPV RGSPPFRV RALR  
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGSRGREKGEFTNLQ  
 GVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF  
 SPEGKFKTKIAGRLMGPKGVAVDNRNGHIIVVDNKSCCVTFQPNGKLVGRFGGRGATDRHFAGPHFVAV  
 NNKNEIIVTDFHNH SVK VYSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIIVADWGN SRIQVFDSSG  
 SFLSYINTSAEPLYGPQGLALTSDGHVVADAGNHCFKAYRYLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2877\\_b02.zip](https://cdn.origene.com/chromatograms/mg2877_b02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006458

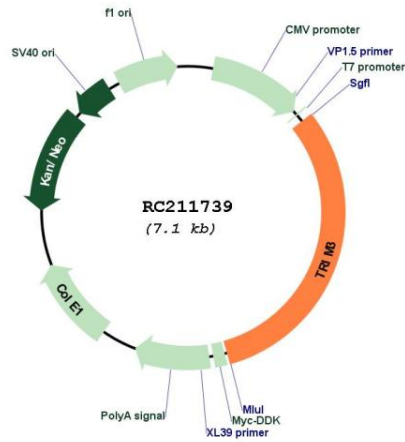
**ORF Size:** 2232 bp

**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](#)

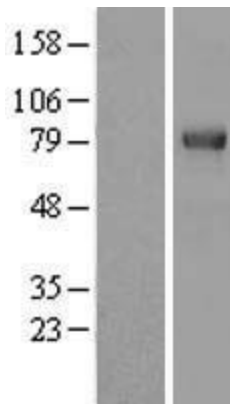
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006458.3</a>
<b>RefSeq Size:</b>	3059 bp
<b>RefSeq ORF:</b>	2235 bp
<b>Locus ID:</b>	10612
<b>UniProt ID:</b>	<a href="#">O75382</a>
<b>Cytogenetics:</b>	11p15.4
<b>Domains:</b>	zf-B_box, NHL, Filamin, RING, BBC
<b>MW:</b>	80.6 kDa
<b>Gene Summary:</b>	<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>

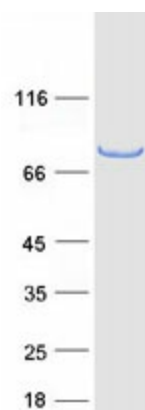
Product images:



Circular map for RC211739



Western blot validation of overexpression lysate (Cat# [LY416642]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211739 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM3 protein (Cat# [TP311739]). The protein was produced from HEK293T cells transfected with TRIM3 cDNA clone (Cat# RC211739) using MegaTran 2.0 (Cat# [TT210002]).