OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC217536

TRIM68 (NM_018073) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM68 (NM_018073) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM68
Synonyms:	GC109; RNF137; SS-56; SS56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217536 representing NM_018073
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCCACAGCCTTGGTGGAAGCCATTGTGGAAGAAGTGGCCTGTCCCATCTGTATGACCTTCCTGA
GGGAGCCCATGAGCATTGACTGTGGCCACAGCTTCTGCCACAGCTGTCTCTCTGGACTCTGGGAGATCCC
AGGAGAATCCCAGAACTGGGGTTACACCTGTCCCCTCTGTCGAGCTCCTGTCCAGCCAAGGAACCTGCGG
CCTAATTGGCAGCTGGCCAATGTTGTAGAAAAAGTCCGTCTGCTAAGGCTACATCCAGGAATGGGGCTGA
AGGGTGACCTGTGTGAGCGCCATGGGGAAAAGCTGAAGATGTTCTGCAAAGAGGATGTCTTGATAATGTG
TGAGGCCTGCAGCCAGTCCCCAGAGCATGAGGCCCACAGTGTTGTGCCAATGGAGGATGTTGCCTGGGAG
TACAAGTGGGAACTTCATGAGGCCCTCGAACATCTGAAGAAAGAGCAAGAAGAGGCCTGGAAGCTTGAAG
TTGGTGAAAGGAAACGAACTGCCACCTGGAAGATACAGGTGGAAACCCGAAAACAGAGTATTGTATGGGA
GTTTGAAAAATACCAGCGATTACTAGAGAAAAAGCAGCCACCACATCGGCAGCTGGGGGCAGAGGTAGCA
GCAGCTCTGGCCAGCCTACAGCGGGAGGCAGCGGAGACCATGCAGAAACTGGAGTTGAACCATAGCGAGC
TCATCCAGCAGAGCCAGGTCCTGTGGAGGATGATTGCAGAGTTGAAAGAGAGGTCGCAGAGGCCTGTCCG
CTGGATGTTGCAGGATATTCAGGAAGTGTTAAACAGGAGCAAATCTTGGAGCTTGCAGCAGCCAGAACCA
ATCTCCCTGGAGTTGAAGACAGATTGCCGTGTGCTGGGGCTAAGAGAGATCCTGAAGACTTATGCAGCTG
ATGTGCGCTTGGATCCAGATACTGCTTACTCCCGTCTCATCGTGTCTGAGGACAGAAAACGTGTGCACTA
TGGAGACACCAACCAGAAACTGCCAGACAATCCTGAGAGATTTTACCGCTATAATATCGTCCTGGGAAGC
CAGTGCATCTCCTCAGGCCGGCACTACTGGGAGGTGGAGGTGGGAGACAGGTCTGAGTGGGGCCTGGGAG
TATGTAAGCAAAATGTAGACCGGAAGGAGGTGGTCTACTTATCCCCCCACTATGGATTCTGGGTGATAAG
GCTGAGGAAGGGAAATGAGTACCGAGCAGGCACCGATGAGTACCCAATCCTGTCCTTGCCGGTCCCTCCT
CGCCGGGTGGGAATCTTCGTGGATTATGAGGCCCATGACATTTCTTTCTACAATGTGACTGACTGTGGCT
CCCACATCTTCACTTTCCCCCGCTATCCCTTCCCTGGGCGCCTCCTGCCCTATTTTAGTCCTTGCTACAG
CATTGGAACCAACAACACTGCTCCTCTGGCCATCTGCTCCCTGGATGGGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217536 representing NM_018073
Red=Cloning site Green=Tags(s)

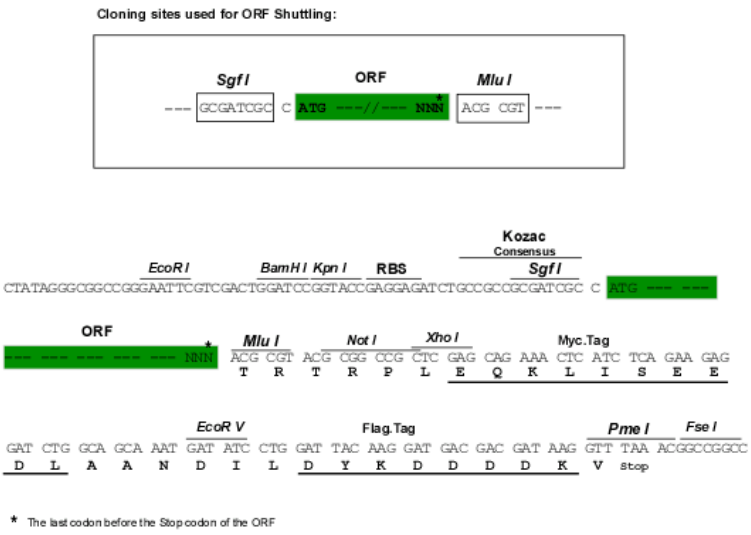
MDPTALVEAIVEEVACPICMTFLREPMSIDCGHSFCHSCLSGLWEIPGESQNWGYTCPLCRAPVQPRNLR
PNWQLANVVEKVRLLRLHPGMGLKGDLCERHGEKLKMFCKEDVLIMCEACSQSPEHEAHSVVPMEDVAWE
YKWELHEALEHLKKEQEEAWKLEVGERKRTATWKIQVETRKQSIVWEFEKYQRLLEKKQPPHRQLGAEVA
AALASLQREAAETMQKLELNHSELIQQSQVLWRMIAELKERSQRPVRWMLQDIQEVLNRSKSWSLQQPEP
ISLELKTDCRVLGLREILKTYAADVRLDPDTAYSRLIVSEDRKRVHYGDTNQKLPDNPERFYRYNIVLGS
QCISSGRHYWEVEVGDRSEWGLGVCKQNVDRKEVVYLSPHYGFWVIRLRKGNEYRAGTDEYPILSLPVPP
RRVGIFVDYEAHDISFYNVTDCGSHIFTFPRYPFPGRLLPYFSPCYSIGTNNTAPLAICSLDGED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4931_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018073

ORF Size: 1455 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

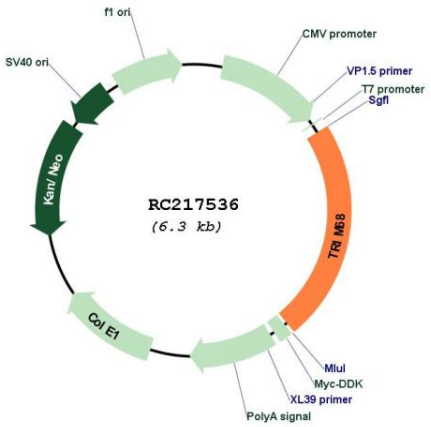
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

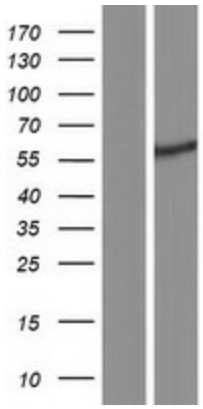
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_018073.8
RefSeq Size:	3321 bp
RefSeq ORF:	1458 bp
Locus ID:	55128
UniProt ID:	Q6AZZ1
Cytogenetics:	11p15.4
Domains:	zf-B_box, RING, SPRY
Protein Families:	Druggable Genome
MW:	56.1 kDa
Gene Summary:	This gene encodes a member of the tripartite motif-containing protein family, whose members are characterized by a "really interesting new gene" (RING) finger domain, a zinc-binding B-box motif, and a coiled-coil region. Members of this family function as E3 ubiquitin ligases and are involved in a broad range of biological processes. This gene regulates the activation of nuclear receptors, such as androgen receptor, and has been implicated in development of prostate cancer cells, where its expression increases in response to a downregulation of microRNAs. In addition, this gene participates in viral defense regulation as a negative regulator of interferon-beta. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

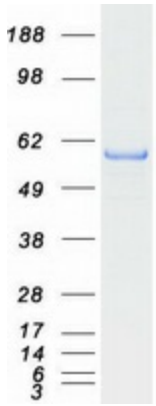
Product images:



Circular map for RC217536



Western blot validation of overexpression lysate (Cat# [LY402645]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217536 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM68 protein (Cat# [TP317536]). The protein was produced from HEK293T cells transfected with TRIM68 cDNA clone (Cat# RC217536) using MegaTran 2.0 (Cat# [TT210002]).