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Product datasheet for RC224302

TRIM37 (NM_015294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM37 (NM_015294) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM37
Synonyms:	MUL; POB1; TEF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224302 representing NM_015294
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGAACAGAGCGTGGAGAGCATTGCTGAGGTTTTCCGATGTTTCATTTGTATGGAGAAATTGCGGG
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AATGTGAAAATCACCATGAAAAACTTAGTGTATTTTGCTGGGCTTGTAAGAAGTGTATCTGCCATCAGTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224302 representing NM_015294
Red=Cloning site Green=Tags(s)

MDEQSVESIAEVFRCFICMEKLRDARLCPHCSKLCCFSCIRRWLTEQRAQCPHCRAPLQLRELVNCRWAE
EVTQQLDTLQLCSLTKHEENEKDKCENHHEKLSVFCWACKKCICHQCALWGGMHGGHTFKPLAEIYEQHV
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LTQETELLESLLQEVEHQLRSCSKSELISKSSEILMMFQQVHRKPMASFVTTPVPPDFTSELVPSYDSAT
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SLSLRRAVDPGENSRSKGDCQTLSEGSPGSSQSGSRHSSPRALIHGSIGDILPKTEDRQCKALDSDAVVV
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ENEEQEEHTSVGGFHDSFMVMTQPPDEDTHSSFPDGEQIGPEDLSFNTDENSGR

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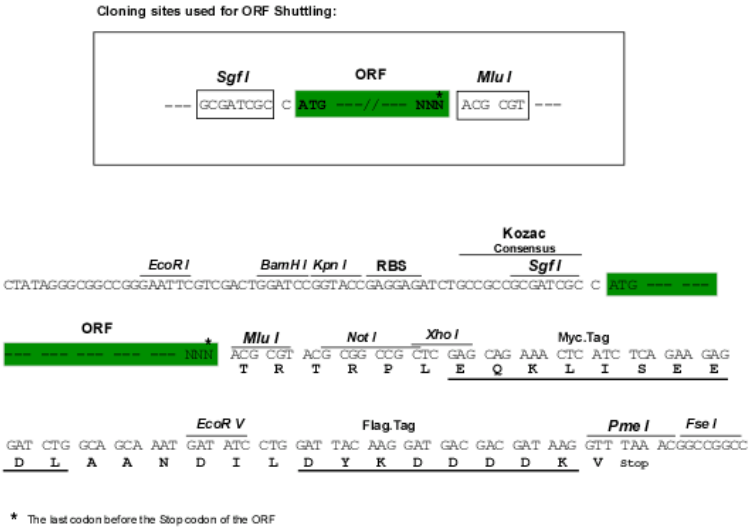
Chromatograms: https://cdn.origene.com/chromatograms/mg2904_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

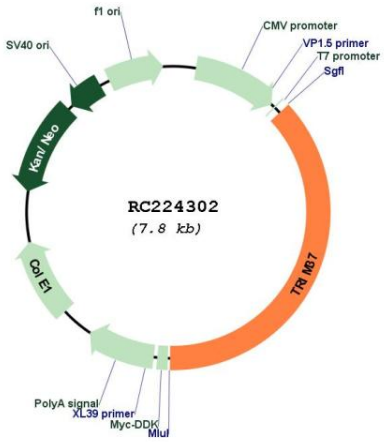


ACCN: NM_015294

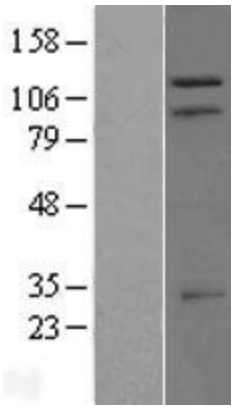
ORF Size: 2892 bp

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_015294.6
RefSeq Size:	4488 bp
RefSeq ORF:	2895 bp
Locus ID:	4591
UniProt ID:	O94972
Cytogenetics:	17q22
Domains:	zf-B_box, MATH, BBC
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	107.7 kDa
Gene Summary:	This gene encodes a member of the tripartite motif (TRIM) family, whose members are involved in diverse cellular functions such as developmental patterning and oncogenesis. The TRIM motif includes zinc-binding domains, a RING finger region, a B-box motif and a coiled-coil domain. The RING finger and B-box domains chelate zinc and might be involved in protein-protein and/or protein-nucleic acid interactions. Mutations in this gene are associated with mulibrey (muscle-liver-brain-eye) nanism, an autosomal recessive disorder that involves several tissues of mesodermal origin. TRIM37 localizes in peroxisomal membranes, and has been implicated in human peroxisomal biogenesis disorders. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RC224302



Western blot validation of overexpression lysate (Cat# [LY414632]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224302 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).