

Product datasheet for **RC201285**

TRIP13 (NM_004237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIP13 (NM_004237) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIP13
Synonyms:	16E1BP; MVA3; OOMD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201285 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGCCGTGGGCGACCTGAAGCAGGCGCTTCCCTGTGTGGCCGAGTCGCCAACGGTCCACGTGG
 AGGTGCATCAGCGCGGCAGCAGCACTGCAAAGAAAGAAGACATAAACCTGAGTGTGAGAAAGCTACTCAA
 CAGACATAATATTGTGTTTGGTATTACACATGGACTGAGTTTGTGAACCTTTTTGACCAGAAATGTG
 CAGTCTGTGTCTATTATTGACACAGAATTAAGGTTAAAGACTCACAGCCCATCGATTTGAGTGCATGCA
 CTGTTGCACTTCCATTTCCAGCTGAATGAAGATGGCCCCAGCAGTGAAAATCTGGAGGAAGAGACAGA
 AAACATAATTGCAGCAAATCACTGGGTTCTACCTGCAGCTGAATCCATGGGCTTTGGGACAGCTTGTA
 TACGATGTGGAAGTCAAATCCCATCTCCTCGATTATGTGATGACAACCTTACTGTTTTGAGACAAGAAGC
 TCAACAGCAACCTCATCACCTGGAACCGGGTGGTGTCTCCACGGTCTCCTGGCACTGAAAAACATC
 CCTGTGTAAGCGTTAGCCAGAAATTGACAATTAGACTTCAAGCAGGTACCGATATGGCCAATTAATT
 GAAATAAACAGCCACAGCCTCTTTTCTAAGTGGTTTTCGAAAAGTGGCAAGCTGGTAACCAAGATGTTTC
 AGAAGATTCAGGATTTGATTGATGATAAAGACGCCCTGGTGTTCGTGCTGATTGATGAGGTGGAGAGTCT
 CACAGCCGCCGAAATGCCTGCAGGGCGGGCACCGAGCCATCAGATGCCATCCGCGTGGTCAATGCCTGC
 TTGACCCAAATGATCAGATTAAGGCAATCCAATGTTGTGATTCTGACCACTTCAACATCACCGAGA
 AGATCGACGTGGCCTTCGTGGACAGGGCTGACATCAAGCAGTACATTGGGCCACCTCTGCAGCAGCCAT
 CTTCAAATCTACCTCTTGTGTTGGAAGAACTGATGAAGTGTGAGATCATATACCCTCGCCAGCAGCTG
 CTGACCTCCGAGAGCTAGAGATGATTGGCTTCATTGAAAACAACGTGTCAAATGAGCCTTCTTTTGA
 ATGACATTTCAAGGAAGAGCGAGGGCCTCAGCGCCGGTCTGAGAAAACCTCCCTTTCTGGCTCATGC
 GCTGTATGTCCAGGCCCCACCCTCACCATAGAGGGTTCCTCCAGGCCCTGTCTCTGCCAGTGGACAAG
 CAGTTTGAAGAGAGAAAGAAGCTTGCAGCTTACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201285 protein sequence
 Red=Cloning site Green=Tags(s)

MDEAVGDLKQALPCVAESPTVHVEVHQRSSTAKKEDINLSVRKLLNRHNIVFGDYTWTEFDEPFLTRNV
 QSVSIIIDTELKVKDSQPIDL SACTVALHIFQLNEDGPSSLENLEETENIIAANHWWLPAAEFHGLWDSL
 YDVEVKSHLLDYVMTLLFSDKNVNSNLITWNRVLLHGPPGTGKTSCKALAQKLTIRLSSRYRYGQLI
 EINSLSLFSKWFSESGKLVTKMFQKIQDLIDDKDALVFVLIDEVESLTAARNACRAGTEPSDAIRVVNAV
 LTQIDQIKRHSNVVILTTSNITEKIDVAFVDRADIKQYIGPPSAAAIKFIYLSCLEELMKCQIIYPRQQL
 LTLRELEMIGFIENNVSKLSLLLNDISRKSEGLSGRVLRLPLFLAHALYVQAPTVTIEGFLQALS LAVDK
 QFEERKKLAAYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6581_d09.zip

Restriction Sites:

Sgfl-Mlul

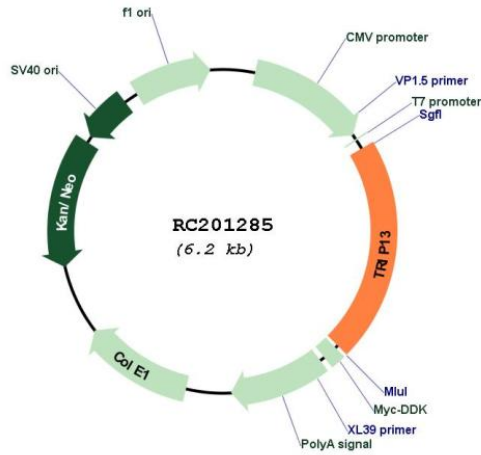
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_004237

ORF Size: 1296 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_004237.4](#)

RefSeq Size: 2408 bp

RefSeq ORF: 1299 bp

Locus ID: 9319

UniProt ID: [Q15645](#)

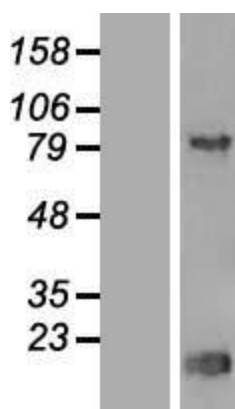
Cytogenetics: 5p15.33

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

MW: 48.6 kDa

Gene Summary: This gene encodes a protein that interacts with thyroid hormone receptors, also known as hormone-dependent transcription factors. The gene product interacts specifically with the ligand binding domain. This gene is one of several that may play a role in early-stage non-small cell lung cancer. [provided by RefSeq, Oct 2009]

Product images:



Western blot validation of overexpression lysate (Cat# [LY418122]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201285 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).