

Product datasheet for **RG201170**

TIP49A (RUVBL1) (NM_003707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIP49A (RUVBL1) (NM_003707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TIP49A
Synonyms:	ECP-54; ECP54; INO80H; NMP 238; NMP238; PONTIN; Pontin52; RVB1; TIH1; TIP49; TIP49A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201170 representing NM_003707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGATTGAGGAGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCACAGCCACGTGAAAGGGC
 TGGGGCTGGACGAGAGCGGCTTGGCCAAGCAGGCGCCTCAGGGCTTGTGGGCCAGGAGAACGCGGAGA
 GGCATGTGGCGTCATAGTAGAATTAATCAAAGCAAGAAAATGGCTGGAAGAGCTGTCTTGTGGCAGGA
 CCTCTGGAAGTGGCAAGACAGCTCTGGCTCTGGCTATTGCTCAGGAGCTGGGTAGTAAGTCCCCTTCT
 GCCCAATGGTGGGAGTGAAGTTTACTCAACTGAGATCAAGAAGACAGAGGTGCTGATGGAGAATTCCG
 CAGGGCCATTGGGCTGCGAATAAAGGAGACCAAGGAAGTTTATGAAGGTGAAGTCACAGAGCTAACTCCG
 TGTGAGACAGAGAATCCCATGGGAGGATATGGCAAACCATTAGCCATGTGATCATAGGACTCAAAACAG
 CCAAAGGAACCAACAGTTGAACTGGACCCAGCATTTTTGAAAGTTTGCAGAAAGAGCGAGTAGAAGC
 TGGAGATGTGATTTACATTGAAGCCAACAGTGGGGCCGTGAAGAGGCAGGGCAGGTGTGATACCTATGCC
 ACAGAATTCGACCTTGAAGCTGAAGAGTATGTCCCTTGCACAAAAGGGGATGTGCACAAAAGAAAAGAAA
 TCATCCAAGATGTGACCTTGCATGACTTGGATGTGGCTAATGCGCGGCCCCAGGGGGGACAGATATCCT
 GTCCATGATGGGCCAGCTAATGAAGCCAAAGAAGACAGAAATCACAGACAAACTTCGAGGGGAGATTAAT
 AAGGTGGTGAACAAGTACATCGACCAGGCGATTGCTGAGCTGGTCCCGGGTGTGCTGTTTGTGATGAGG
 TCCACATGCTGGACATTGAGTGTTCACCTACCTGCACCGCGCCCTGGAGTCTTCTATCGTCCCATCGT
 CATCTTTGCATCCAACCGAGGCAACTGTGTCATCAGAGGCACTGAGGACATCACATCCCCTCACGGCATC
 CCTCTTGACCTTCTGGACCGAGTGTGATAATCCGGACCATGCTGTATACTCCACAGGAAATGAAACAGA
 TCATTAATAATCCGTGCCAGACGGAAGGAATCAACATCAGTGAGGAGGCACTGAACCACCTGGGGGAGAT
 TGGCACCAAGACCACACTGAGGTACTCAGTGCAGCTGCTGACCCCGGCCAACTTGCTTAAATCAAC
 GGAAGGACAGCATTGAGAAAGAGCATGTCGAAGAGATCAGTGAACCTTTCTATGATGCCAAGTCTCCG
 CCAAAATCCTGGCTGACCAGCAGGATAAGTACATGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201170 representing NM_003707
 Red=Cloning site Green=Tags(s)

MKIEEVKSTTKTQRIASHSHVKLGLDESGLAKQAASGLVGQENAREACGVIVELIKSKKMAGRAVLLAG
 PPGTGKTALALAIQELGSKVPFCPMVGSEVYSTEIKKTEVLMENFRRAIGLRIKETKEVYEGEVTELT
 CETENPMGGYGKTI SHVIIGLKTAKGTKQLKLDPSIFESLQKERVEAGDVIYIEANS GAVKRQGRCDTYA
 TEFDLEAE EYVPLPKGDVHKKEIIQDVTLHDLVDANARPQGGQDILSMMGQLMKPKKTEITDKLRGEIN
 KVVNKYIDQGI AELVPGVLFVDEVHMLDIECFYTLHRALESSIAPIVIFASN RGN CVIRGTEDITSPHGI
 PLDLLDRVMI IRTMLYTPQEMKQIIKIRAQTEGINISEEALNHLGEIGTKTTLRYSVQLLTPANLLAKIN
 GKDSIEKEHVEEISELFDYDAKSSAKILADQDKYMK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003707

ORF Size: 1368 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_003707.3](#)

RefSeq Size: 1750 bp

RefSeq ORF: 1371 bp

Locus ID: 8607

UniProt ID: [Q9Y265](#)

Cytogenetics: 3q21.3

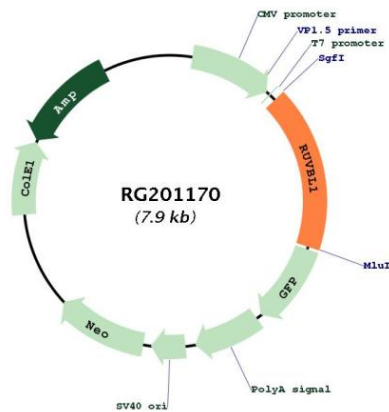
Domains: AAA

Protein Families: Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Wnt signaling pathway

Gene Summary: This gene encodes a protein that has both DNA-dependent ATPase and DNA helicase activities and belongs to the ATPases associated with diverse cellular activities (AAA+) protein family. The encoded protein associates with several multisubunit transcriptional complexes and with protein complexes involved in both ATP-dependent remodeling and histone modification. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG201170