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Product datasheet for RC207595

TULP3 (NM_003324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TULP3 (NM_003324) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TULP3
Synonyms:	TUBL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC207595 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCTTCGCGCTGCCGGCTCAGTCCCAGCGGCGACAGTGTCTTCCATGAAGAAATGATGAAGATGC
GACAGGCTAAGCTGGATTATCAGAGGCTACTACTTGAGAAGAGGCAAAGGAAAAAGCGCCTTGAGCCATT
TATGGTGCAGCCCAATCCAGAAGCCAGGCTACGTCGGGCAAAGCCAAGGGCCAGTGATGAGCAGACTCCC
TTGGTGAACTGTCATACTCCCCACAGCAATGTCATCTTACATGGTATTGATGGTCCAGCTGCTGTCCTGA
AACCAGACGAAGTTCATGCTCCATCAGTAAGCTCCTCTGTTGTGGAAGAAGATGCTGAAAACACCGTGGA
TACTGCTTCCAAGCCAGGACTTCAGGAGCGTCTCCAAAAGCATGATATCTCTGAAAGTGTGAACTTCGAT
GAGGAGACTGATGGAATATCCCAGTCAGCATGTTTAGAAAGACCCAATTCTGCATCAAGCCAGAATTCAA
CCGATACAGGCACTTCCGGTTCTGCTACTGCCGCCCAACCAGCTGATAACCTCCTGGGAGACATAGACTA
CCTGGAGGACTTTGTGTATAGTCCTGCCCCTCAAGGTGTCACAGTAAGATGTCGGATAATCCGGGATAAA
AGGGGAATGGATCGGGGTCTCTTCCCCACCTACTATATGTACTTGGAAAAAGAAGAAAATCAGAAGATAT
TTCTTCTTGCAGCTAGAAAGCGGAAAAAGAGCAAAACAGCCAACTACCTTATCTCCATTGATCCAGTTGA
TTTATCTCGTGAAGGAGAAAGTTATGTCGGCAAGCTTAGATCCAACCTCATGGGGACCAAGTTTACAGTT
TATGACCGTGGCATCTGCCCCATGAAGGGCCGGGGTTTGGTAGGAGCGGCCCACACCCGGCAGGAGCTGG
CTGCCATCTCCTATGAAACAAACGTACTTGGATTTAAAGGTCCTAGGAAAATGTCTGTGATCATTCCTGG
AATGACACTGAATCATAAGCAGATCCCCTATCAGCCACAAAACAACCATGACAGTTTGCTCTCAAGGTGG
CAGAACAGAACTATGGAAAATCTGGTTGAGCTGCACAACAAGGCCCCCGTCTGGAACAGTGACACTCAGT
CCTATGTCCTCAACTTCCGTGGCCGGGTCACTCAGGCGTCTGTGAAGAACTTCCAGATAGTCCACAAAAA
TGACCCTGATTATATAGTCATGCAGTTTGGACGTGTGGCAGATGACGTGTTCACACTGGATTACAACTAC
CCACTTTGTGCAGTACAGGCCTTTGGCATCGGTCTTTCTAGCTTTGACAGTAAGCTGGCGTGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207595 protein sequence
Red=Cloning site Green=Tags(s)

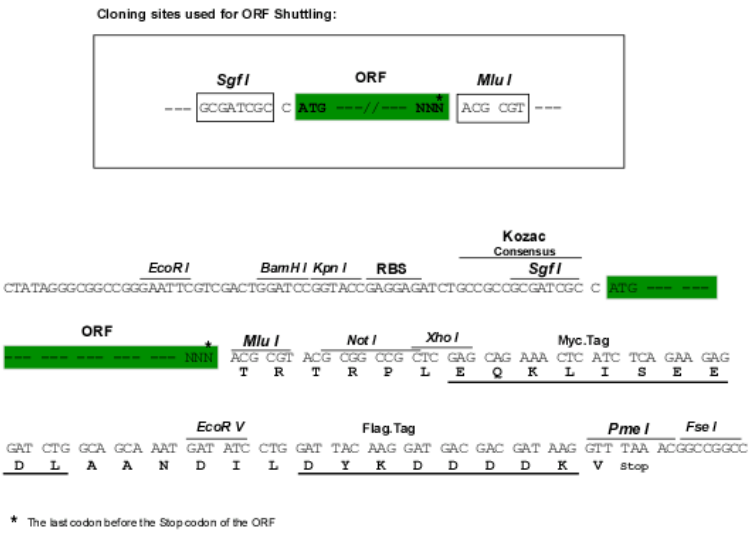
MEASRCRLSPSGDSVFHEEMMKMRQAKLDYQRLLLEKRQRKKRLEPFMVQPNPEARLRRAKPRASDEQTP
LVNCHTPHSNVILHGIDGPAAVLKPDEVHAPSVSSSVVEEDAENTVDTASKPGLQERLQKHDISESVNFD
EETDGISQSACLERPNSASSQNSTDTGTSGSATAAQPADNLLGDIDYLEDFVYSPAPQGVTVRCRIIRDK
RGMDRGLFPTYYMYLEKEENQKIFLLAARKRKKSKTANYLISIDPVDLSREGESYVGKLRSNLMGTKFTV
YDRGICPMKGRGLVGAAHTRQELAAISYETNVLGFKGPRKMSVIIPGMTLNHKQIPYQPQNNHDSLLSRW
QNRTMENLVELHNKAPVWNSDTQSYVLNFRGRVTQASVKNFQIVHKNDPDYIVMQFGRVADDVFTLDYNY
PLCAVQAFGIGLSSFDSKLACE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6336_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003324

ORF Size: 1326 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.

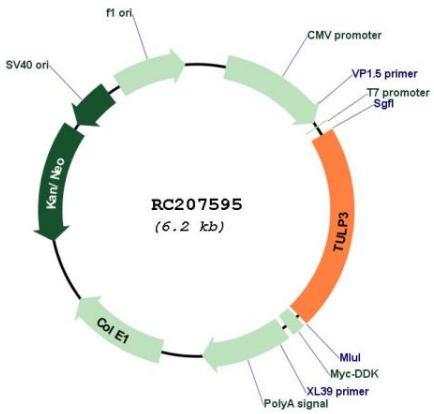
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

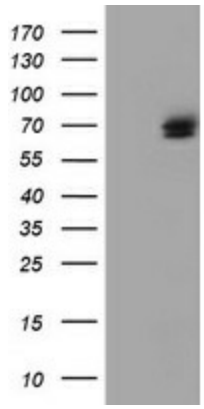
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003324.5
RefSeq Size:	3106 bp
RefSeq ORF:	1329 bp
Locus ID:	7289
UniProt ID:	O75386
Cytogenetics:	12p13.33
Domains:	Tub
Protein Families:	Druggable Genome, Transcription Factors
MW:	49.7 kDa
Gene Summary:	This gene encodes a member of the tubby gene family of bipartite transcription factors. Members of this family have been identified in plants, vertebrates, and invertebrates, and they share a conserved N-terminal transcription activation region and a conserved C-terminal DNA and phosphatidylinositol-phosphate binding region. The encoded protein binds to phosphoinositides in the plasma membrane via its C-terminal region and probably functions as a membrane-bound transcription regulator that translocates to the nucleus in response to phosphoinositide hydrolysis, for instance, induced by G-protein-coupled-receptor signaling. It plays an important role in neuronal development and function. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2009]

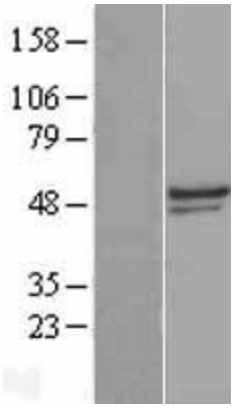
Product images:



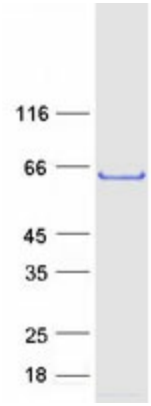
Circular map for RC207595



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TULP3 (Cat# RC207595, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TULP3(Cat# [TA504149]). Positive lysates [LY418767] (100ug) and [LC418767] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418767]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207595 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TULP3 protein (Cat# [TP307595]). The protein was produced from HEK293T cells transfected with TULP3 cDNA clone (Cat# RC207595) using MegaTran 2.0 (Cat# [TT210002]).