

## Product datasheet for **RC201525**

### **DYNLT3 (NM\_006520) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DYNLT3 (NM\_006520) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DYNLT3  
**Synonyms:** RP3; TCTE1L; TCTEX1L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201525 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGTACCATCGCCACTGCGACGAGGTTGGCTTCAATGCTGAGGAAGCCACAATATTGTCAAAG  
AGTGTGTAGATGGGGTTTTAGGTGGTGAAGATTATAATCACAACAACATCAACCACTGGACTGCAAGCAT  
AGTGAACAATCCTTAACACACCTGGTTAAGTTGGGAAAAGCCTATAAATATATTGTGACCTGTGCAGTG  
GTCCAGAAGAGCGCATATGGCTTTCACACAGCCAGCTCCTGTTTTGGGATACCACATCTGATGGAACCT  
GTACCGTAAGATGGGAGAACCGACCATGAACTGTATTGTCAACGTTTTTGCCATTGCTATTGTTCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201525 protein sequence  
Red=Cloning site Green=Tags(s)  
MEEYHRHCDEVGFNAEEAHNIVKECVDGVLGGEDYNHNNINQWTASIVEQSLTHLVKLGKAYKYIVTCAV  
VQKSAYGFHTASSCFWDTTSDGCTVWRNRTMNCIVNVFAIAIVL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6299\\_g03.zip](https://cdn.origene.com/chromatograms/mk6299_g03.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_006520

**ORF Size:** 348 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_006520.3](#)

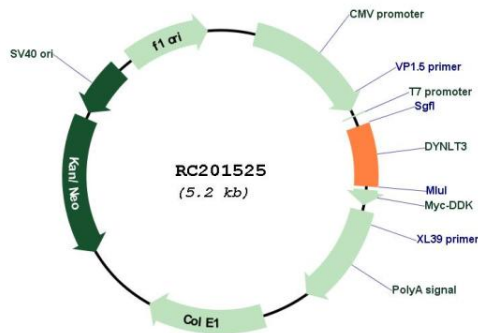
**RefSeq Size:** 2230 bp

**RefSeq ORF:** 351 bp

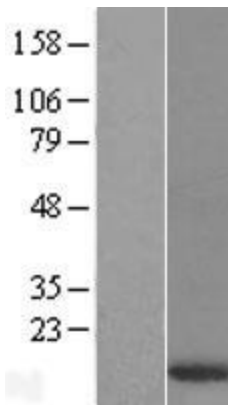
**Locus ID:** 6990  
**UniProt ID:** [P51808](#)  
**Cytogenetics:** Xp11.4  
**Domains:** Tctex-1  
**MW:** 13.1 kDa

**Gene Summary:** This gene encodes a member of a subclass of dynein light chains. The encoded protein homodimerizes and forms the light chain component of the cytoplasmic dynein motor protein complex. This protein may be important for binding dynein to specific cargos including the spindle checkpoint protein BUB3. This protein may also function independently of dynein as a transcriptional modulator. Pseudogenes of this gene are found on chromosomes 2 and 20.[provided by RefSeq, Mar 2010]

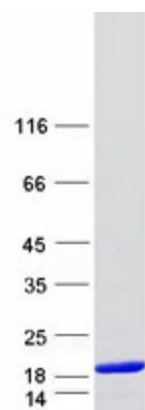
### Product images:



Circular map for RC201525



Western blot validation of overexpression lysate (Cat# [LY416586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201525 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DYNLT3 protein (Cat# [TP301525]). The protein was produced from HEK293T cells transfected with DYNLT3 cDNA clone (Cat# RC201525) using MegaTran 2.0 (Cat# [TT210002]).