

Product datasheet for **RG211870**

DYNLT2 (NM_174910) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: DYNLT2
Synonyms: TCTE3; TCTEXID3; TCTEX2; Tctex4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211870 representing NM_174910
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAGAAGCGAGGCCGAGGCGTGAAGTCGAGCCCCATCCAGACCCGAACAGACCCCTCAGCAGGCTC
CGGTGACGCCTAGGAAAGAAAGGAGGCCTAGCATGTTTCGAGAAGGAGGCATATACACAGATTTTAAGAGA
AAGACTGAGAGAGTCAATTACAATGTTTCAGTATGTGGAGCCTCCTTTTGATGACTCAATTGCTGATATA
GGTAAAGATGGAAGAGTGCCTGGCAAAATTAAAGTTGCTAATTCATATAGAATGGAGCCATTGAAGA
AATTCCAAGCTCATTTCAGTAGAACTAAAGTCCAGCAGATACTAACAGAAAGCTTAAAGATGTCAAATA
TGATGATAAAGTATTCTCTCACTTGTCACTTGAATTGGCAGACCGCATACTGTTAGCAGTCAAAGAATTT
GGGTACCACCGTTATAAGTTTCATTATAAAAGTATTATTTATTCAAAGACTGGCCAAGCAATAAATATTG
CCAGCAGATGGATCTGGGACATTGCATGGGACAGCTGGGTCGCAGCTAAACACGAAGCAGAATCCTACGT
GGCACTGGTCTTGGTGTGGCCCTTTATTATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211870 representing NM_174910
Red=Cloning site Green=Tags(s)

MEKRGKGVKSSPIQTPNQTPQQAPVTPRKERRPSMFEKEAYTQILRERLRRESIHNQYVEPPFDDSIADI
GKEWKSALAKLKFANSYRMEPLKKFQAHSVETKVQQILTESLKDVKYDDKVFSLSLLEADRILLAVKEF
GYHRYKFIKVLFIQKTGQAINIASRWIWDIAWDSWVAAKHEAESYVALVLVFALYYE

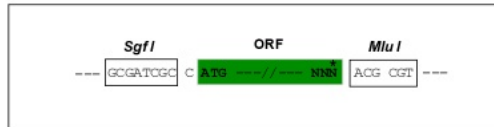
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:

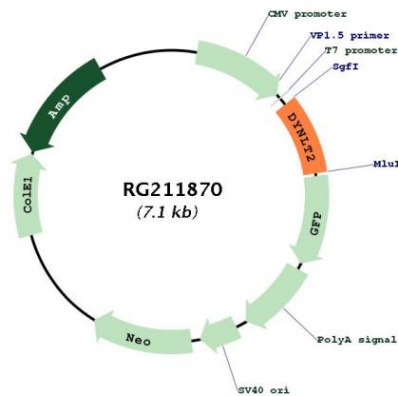


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -
 --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN:	NM_174910
ORF Size:	594 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_174910.3
RefSeq Size:	747 bp

RefSeq ORF:	597 bp
Locus ID:	6991
UniProt ID:	Q8IZS6
Cytogenetics:	6q27
Gene Summary:	May be an accessory component of axonemal dynein and cytoplasmic dynein 1. Candidate for involvement in male sterility (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211870