

Product datasheet for **RG235047**

UNC45B (NM_001267052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC45B (NM_001267052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UNC45B
Synonyms:	CMYA4; CTRCT43; MFM11; SMUNC45; UNC-45B; UNC45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG235047 representing NM_001267052
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAGAGGTGGAAGCGGTACAGCTGAAGGAGGAAGAAACCGGCATTTCCAGTCCAGGACTACAAGG
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 TGAGCTGCTGGAGATCCTGACTGTGGTGGGCAACAGGAGCCAGATGAGAAGAAGGCAGAAGTGGTTCAG
 ACAGCCCGAGAATGTCTCATCAAGTGCATGGATTATGGTTTCATTAAACAGTGTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235047 representing NM_001267052
 Red=Cloning site Green=Tags(s)

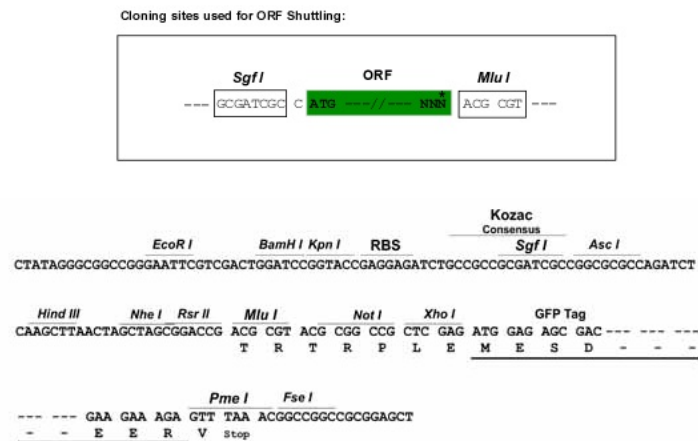
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 QARATVILHAVRIDRICSLMAVENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITS
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 TQVTTQWLEILQRLCLHDQLSVQHRGLVIAYNLLAADAELAKKLVESSELLEILTVVGKQEPDEKKAEEVQ
 TARECLIKCMDYGFIPKPV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001267052

ORF Size:	2787 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_001267052.2
RefSeq Size:	5685 bp
RefSeq ORF:	2790 bp
Locus ID:	146862
UniProt ID:	Q8IWX7
Cytogenetics:	17q12
Gene Summary:	This gene encodes a co-chaperone required for folding and accumulation of type II myosins. The protein consists of three tetratricopeptide repeat motifs at the N-terminus that form a complex with heat shock protein 90, a central region of unknown function that is conserved in all Unc-45 proteins, and a C-terminal Unc-45/Cro1/She4 domain. The protein is expressed at high levels in striated muscle, where its muscle myosin chaperone activity is dependent on heat shock protein 90 acting as a co-chaperone. A missense mutation in this gene has been associated with cataract development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

