

## Product datasheet for **MG211221**

### Unc45b (BC084585) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unc45b (BC084585) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Unc45b
Synonyms:	AA445617; Cmya4; D230041A13Rik; Unc45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211221 representing BC084585  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAGGCTGAAGCGGCACAGCTGAAGGAGGAGGGGAACCGGCATTTTCAGCTCCAGGATTACAAGG  
 CGGCCACCAAGAGCTACAGCCAGGCCCTGAAGCTGACCAAGGACAAGGCTCTGCTAGCTACACTCTACCG  
 GAATCGGGCAGCCTGCGGCCTGAAAATGGAGAGCTACGCCCAGGCAGCCTCGGATGCTTCCAGAGCCATT  
 GACATCAACTCTGCTGACATCAAAGCATTGTATCGGCGATGCCAGGCACTGGAGCATCTTGGCAAGTTGG  
 ACCAGGCATTCAAGGATGTGACGCGCTGTGCTACCCTGGAGCCAAGGAACCAGAACTTCCAGGAGACT  
 GCGGAGGCTCAACACCAGCATCCAAGAGCAGCTCCGTGTGCAGTTTTCTACAGACTCCAGGGTACAGACG  
 ATGTTTGAATTTCTGAACGAAAACAGCGAGGCTGATAAGCGAGAGAAGGCTGCCAACAACTCATTG  
 TCCTGGGCGGTGAAGAAGCGGGTGTGAGAGGATCCTCCAGAGCAATGGAGTGGCTCTGCTGCTGACGCT  
 TATGAACACCCAGCGGCCTGAGCTGCTGCTAGCGGCTGTGCGGACGCTGTCTGGCATGTGCAAGTGGCCAC  
 AGAGCTAGGGCCACCGCCATCCTGCACGAGTCCGCATAGACAGAATCTGCAGCCTCATGGCCCTGGAGA  
 ATGAAGAGATGTCCCTGGCTGTCTGCAACCTGCTCCAGGCCATCATTGACTCCCTGTCTGGAGAGGACAA  
 GAGAGAGCATCGTGGGAAGGAGGAGGCCTTGGTTCTAGATAACCAAGAAGGACCTGAAGCAGATCACCAGC  
 CACCTGCTGGACATGCTGGTCAAGAAAGTGTCTGGGCAGGGCAGAGACCAGGCACTGAACCTGCTTA  
 ATAAGAATGTCCCAGGAAGGACCTGTCCATTCATGACAACTCACGCACCATCTATGTTGTAGATAACGG  
 TCTGAGGAAGATCCTGAAGTGGTGGGGCAGGTTCCAGACCTGCCCTCCTGCCTACCCCTGACGGACAAC  
 ACCCGCATGTGGCCTCCATCCTCATCAACAAGCTCTATGATGACCTGCGCTGTGACCCAGAGCGCGACC  
 ACTTCCGCAAGATCTGTGAGGAGTATATCAGGACAAATTTGACCCCAAGGACATGGACAAGAATGTAAA  
 TGCCATCCAGACGGTGTCCGGCATCTTGACGGGCCCTTTGACCTGGGCAATCAGCTGCTGGGCATGAAA  
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 CTCTCATCCACGCTCCACGAAGCTCAGCCGGGCCACCTTCATCATCACCAACGGAGTGACACTTCTTAA  
 GCAGATCTACAAGACCACAAAGAATGAGAAGATCAAGATCCGCACGCTGGTGGGGCTCTGTAAACTTGGC  
 TCAGCTGGAGGCTCCGACTATGGTCTCAGACAGTTTGTGAAGGGTCAACAGAGAAGCTAGCCAAGCAGT  
 GTCGAAAGTGGCTGTGTAACACCCGCATAGACACCCGGACGCGGCGCTGGGCAGTGGAGGGCCTGGCCTA  
 CCTCACGCTGGACGCTGACGTGAAGGACGACTTTGTCCAGGACATCCCTGCTCTGCAGGCCATGTTTGG  
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 ATGATGTCAAGGAGGTCCTCCCTGAGCTGGTGCAGCTGGCCAAGTTCTCCAAGCAACATGTGCCAGAGGA  
 GCACCCCAAGGACAAGAAGGACTTCGTTGACTTGGGGTGAACGCTTCTGAAGGCAGGTGTCATATCT  
 GCACTGGCCTGCATGGTGAAGGCAGACAGTGCCATCCTCACAGACCAGACCAAGGAGCTGCTGGCCAGGG  
 TATTCTGGCACTCTGTGACAAATCCAAAGGACCGGGCACCATTGTAGCTCAAGGTGGTGGCAAGGCCCT  
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 GCTGTCTCCAACCCGACATTGCCTTCCCTGGGAGAGGGTATATGAGGTGGTGGGCCCCCTCGTGAGTC  
 TCCTGGACACACAGAGGGATGGGCTTCAAGACTATGAGGCTCTGCTGGGACTGACTAACCTGTCTGGCG  
 CAGTGACAAACTCAGGCAGAAGATCTTCAAGGAGAAGGCCTTGCAGACATCGAAAACATCATGTTTGG  
 AACCATGACCAGCTACGGCAGGCAGCCACCGAATGCATGTGTAACATGGTGTCAATAAGGAGGTTCAAG  
 AGAGGTTCTGGCCGATGGGAATGATCGTCTGAAGCTGGTGGTGTGCTCTGTGGGAGGATGACCACAA  
 ACTGCAGAACGCAGCAGCTGGAGCTTAGCCATGCTGACCGCGGCACATAAGAAACTGTGCCTCAAGATG  
 ACGGAGGTGACAACCCAGTGGCTGGAGATCCTACAGCGGCTTTGCCTGCATGACCAGTTGTCCTGCAGC  
 ACCGGGGCTGGTCATTGCCACAACCTGCTATCAGCGGATGCTGAGCTGGCGAGGAAGCTGGTGGAGAG  
 CGAGCTGTGGAGATCCTGACTGTGGTGGGAAAGCAGGAGCCAGATGAGAAGAGAGCGGCTGTGGTCCAG  
 ACAGCCCGGAGTGTCTTATCAAGTGCATGGATTATGGCTTCATCAAGCCGGTGTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211221 representing BC084585  
 Red=Cloning site Green=Tags(s)

MAEAEAAQLKEEGNRHFQLQDYKAATKSYSQALKLTKDKALLATLYRNRAACGLKMESYAQAASDASRAI  
 DINSADIKALYRRCQALEHLGKLDQAFKDVQRCATLEPRNQNFQETLRRNLNTSIQEQLRVQFSTDSRVQT  
 MFEILLNENSEADKREKAANLIVLGREEAGAERILQSNQVALLQLMNTQRPELLLAAVRTLSGMCSGH  
 RARATAILHAVRIDRICSLMALENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITS  
 HLLDMLVSKKVSQGRDQALNLLNKNVPRKDLSDHNSRTIYVVDNGLRKILKVVGVQVVDLPDLPCLPLTDN  
 TRMLASILINKLYDDLRCDPERDHFRIKICEEYITSKFDPQMDKKNVNAIQTVSGILQGPFDLGNQLLGK  
 GVMEMMVALCGSEREAQQLVAVEALIHASTKLSRATFIIITNGVTLLKQIYKTTKNEKIKIRTLVGLCKLG  
 SAGGSDYGLRQFAEGSTEKLAKQCRKWLNTAIDTRRRWAVEGLAYLTLADADVDDFVQDIPALQAMFE  
 LAKTSDKTILYSVANTLVNCTNSYDVKEVPELVQLAKFSKQHVPEEHPKDKDFVDLRVKRLKAGVIS  
 ALACMVKADSAILTDQTKELLARVFLALCDNPKDRGTIVAQGGGKALIPALLEGTDVGVKAAHGLAKIA  
 AVSNPDIAPGERVYEVVRPLVSLLDTRDGLQNYEALLGLTNLSGRSDKLRQKIFKEKALPDINMYMFE  
 NHDQLRQAATECMCNMVLNKEVQERFLADGNDRLKLVLLCGEDDHKLQNAAGALAMLTAAHKKLCMKM  
 TEVTTQWLEILQRLCLHDQLSVQHRGLVIAHNLLSADAELARKLVESELLEILT VVGKQEPDEKRAAVVQ  
 TARECLIKCMDYGFIPKPV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

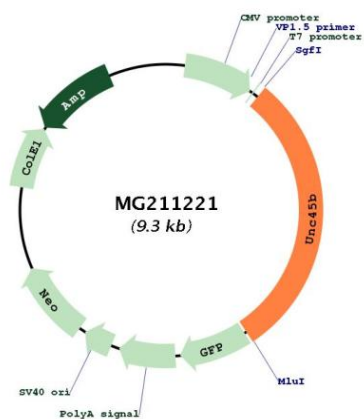
Cloning Scheme:



ACCN: BC084585

<b>ORF Size:</b>	2789 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC084585</a> , <a href="#">AAH84585</a>
<b>RefSeq Size:</b>	3610 bp
<b>RefSeq ORF:</b>	2789 bp
<b>Locus ID:</b>	217012
<b>Cytogenetics:</b>	11 C
<b>Gene Summary:</b>	Acts as a co-chaperone for HSP90 and is required for proper folding of the myosin motor domain. Plays a role in sarcomere formation during muscle cell development (PubMed:12356907, PubMed:18326487, PubMed:18478096). Is necessary for normal early lens development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211221