

## Product datasheet for **MR211221**

### Unc45b (NM\_178680) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unc45b (NM_178680) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Unc45b
Synonyms:	AA445617; Cmya4; D230041A13Rik; Unc45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR211221 representing NM\_178680  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCAGAGGCTGAAGCGGCACAGCTGAAGGAGGAGGGGAACCGCATTTCAGCTCCAGGATTACAAGG  
 CGGCCACCAAGAGCTACAGCCAGGCCCTGAAGCTGACCAAGGACAAGGCTCTGCTAGCTACTCTACCG  
 GAATCGGGCAGCCTGCGGCCTGAAAATGGAGAGCTACGCCAGGCAGCCTCGGATGCTTCCAGAGCCATT  
 GACATCAACTCTGCTGACATCAAAGCATTGTATCGGCGATGCCAGGCACTGGAGCATCTTGGCAAGTTGG  
 ACCAGGCATTCAAGGATGTGACGCGCTGTGCTACCCTGGAGCCAAGGAACCAGAACTCCAGGAGACT  
 GCGGAGGCTCAACACCAGCATCCAAGAGCAGCTCCGTGTGCACTTTCTACAGACTCCAGGGTACAGACG  
 ATGTTTGAATTTCTGAACGAAAACAGCGAGGCTGATAAGCGAGAGAAGGCTGCCAACAACTCATTG  
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 TCTGAGGAAGATCCTGAAGTGGTGGGGCAGGTTCCAGACCTGCCCTCCTGCCTACCCCTGACGGACAAC  
 ACCCGCATGCTGGCCTCCATCCTCATCAACAAGCTCTATGATGACCTGCGCTGTGACCCAGAGCGCGACC  
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 CTCTCATCCACGCTCCACGAAGCTCAGCCGGCCACCTTCATCATCACCAACGGAGTGACACTTCTTAA  
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 GTCGAAAGTGGCTGTGTAACACCCGCATAGACACCCGGACGCGGCGCTGGGCAGTGGAGGGCCTGGCCTA  
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 GCTGTCTCCAACCCGACATTGCCTTCCCTGGGAGAGGGTATATGAGGTGGTGGGCCCCCTCGTGAGTC  
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAGTTTAA

Protein Sequence: >MR211221 representing NM\_178680  
 Red=Cloning site Green=Tags(s)

MAEAEAAQLKEEGNRHFQLQDYKAATKSYSQALKLTKDKALLATLYRNRAACGLKMESYAQAASDASRAI  
 DINSADIKALYRRCQALEHLGKLDQAFKDVQRCATLEPRNQNFQETLRRNLNTSIQEQLRVQFSTDSRVQT  
 MFEILLNENSEADKREKAANLIVLGREEAGAERIFQSNQVALLQLMNTQRPELLLAVRTLSGMCSGH  
 RARATAILHAVRIDRICSLMALENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITS  
 HLLDMLVSKKVSQGRDQALNLLNKNVPRKDLSDHNSRTIYVVDNGLRKLKVVGVQVDPDLPSCPLTDN  
 TRMLASILINKLYDDLRCDPERDHFRIKICEEYITSKFDPQMDKKNVNAIQTVSGILQGPFDLGNQLLGK  
 GVMEMMVALCGSEREADQLVAVEALIHASTKLSRATFIIITNGVTLLKQIYKTTKNEKIKIRTLVGLCKLG  
 SAGGSDYGLRQFAEGSTEKLAKQCRKWLNTAIDTRTRRWAVERGLAYLTLDADVKKDFVQDIPALQAMFE  
 LAKTSDKTILYSVANTLVNCTNSYDVKEVPELVQLAKFSKQHVPEEHPKDKDFVDLRVKRLKAGVIS  
 ALACMVKADSAILTDQTKELLARVFLALCDNPKDRGTIVAQGGGKALIPLALGTDVGVKAAHGLAKIA  
 AVSNPDIAPGERVYEVVRPLVSLLDTRDGLQNYEALLGLTNLSGRSDKLRQKIFKEKALPDIENYMF  
 NHDQLRQAATECMCNMVLNKEVQERFLADGNDRLKLVLLCGEDDHKLQNAAGALAMLTAHKKLCLKM  
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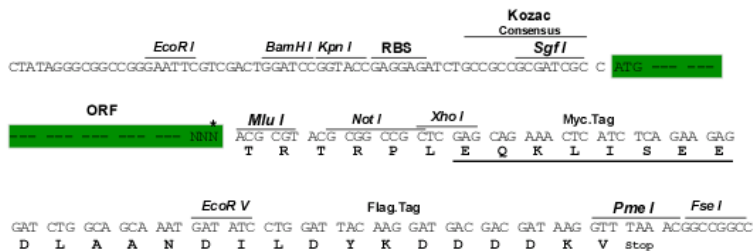
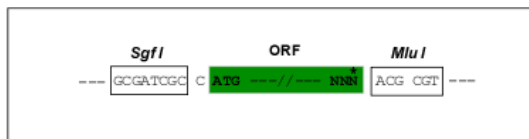
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9098\\_b08.zip](https://cdn.origene.com/chromatograms/mm9098_b08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



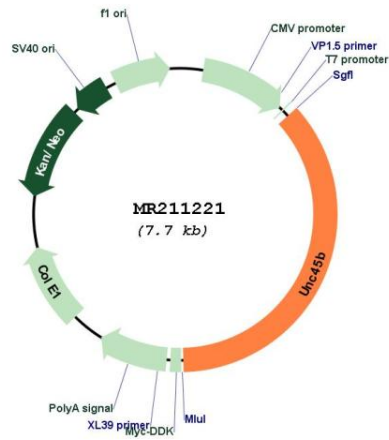
\* The last codon before the Stop codon of the ORF

ACCN: NM\_178680

ORF Size: 2787 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="#">NM_178680.4</a> , <a href="#">NP_848795.3</a>
<b>RefSeq Size:</b>	3677 bp
<b>RefSeq ORF:</b>	2790 bp
<b>Locus ID:</b>	217012
<b>UniProt ID:</b>	<a href="#">Q8CGY6</a>
<b>Cytogenetics:</b>	11 C
<b>MW:</b>	103.4 kDa
<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 MR211221