

## Product datasheet for **MG205574**

### Eif4b (BC007171) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4b (BC007171) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif4b
Synonyms:	2310046H11Rik; AL024095; C85189; Eif4a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205574 representing BC007171 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCGCTATGGGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGACCGAGGCTATGACT  
CCAGGATAGGCAGTGGCAGAAGAGCATTGGAAGTGGGTACCGGAGAGATGATGACTACAGAGGAGGTGG  
GGACCGCTATGAAGACCGCTATGACAGACGGGATGATCGGTCGTGGAGCTCCAGGGATGACTACTCTCGG  
GATGATTATAGGCGTGATGACAGAGTCCCCCAGAGACCCAGACTGAACCTCAAGCCTCGCAGCGCTC  
CTAAGGAGGATGACGCCCTCCGCCAGCACCTCCAGTCCAGCCGGCAGCCTCCATCTTTGGAGGGGCGAA  
GCCTGTTGACACAGCTGCTAGGGAAGAGAAGTAGAGGAGCGGCTACAGAAGGAGCAGGAGAAGCTGCAG  
CGTCAGCTGGATGAGCCAAAAGTACGCCCGGCCCGGGAGAGACCCCAAGCTGGCGAAGTGAAGAAA  
CTCAGGAAAGAGAACGGTCAAGGACAGGAAGTGAAGTCAATCGCAGACTGGGCCTCAGCCACATCTGGCAG  
AAATACACGAAGGAGAGAGAGTGAAGTCTCTAGAAAATGAAACCTCAATAAAGAAGAAGACTGTCAC  
TCTCCAACCTCTAAGCCTCTAAACCTGACCAGCCTCTAAGGTAATGCCAGCCCTCCACCAAAGGAGA  
ATGCGTGGGTGAAGCGAAGCTCTAACCTCCTGCCGATCTCAGAGCTCAGACACAGAGCAGCCGTCCTCC  
TACAAGTGGTGGAGGAAAGTAGCTGCAGTCCAGCCCCCTGAGGAAGGACCATCAAGAAAAGATGGAAT  
AAAGTGGATGTGGTGGTGCCACACAAGCCAAGCTGGAAGCTGCAGCCGTGGTCCCGGGGATGGAGGGA  
GCAGAGACCACTGGAAGGACTTGGATAGGAAGGATGGCAAAAAGATCAAGATTCCAGATCTGCACCTGA  
GCCAAAAGAAACCTGAGGAGAACCAGCCTCCAAGTTCAGCTCTGCAAGCAAGTACGCTGCTGTCTGTG  
GATGGCGAGGATGAGGATGAGGGCGACGACTGCACTGAG

**ACCGT**ACCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205574 representing BC007171  
 Red=Cloning site Green=Tags(s)

MDRYGGRDRYDDRGRSDYDRGYDSRIGSGRRAFSGYRRDDDYRGGGDRYEDRYDRRDRSWSRRDDYSR  
 DDYRRDDRGPQRPRLNLKPRSAPKEDDASASTSQSSRAASIFGGAKPVDTAAREREVEERLQKEQKLQ  
 RQLDEPKLDRRPRERHPSWRSEETQERERSRTGSESSQTGASATSGRNTRRRESEKSLNETLNKEEDCH  
 SPTSKPPKPDQPLKVMPPPPKENAWVKRSSNPPARSQSSDTEQPSTSGGGKVAAVQPPEEGPSRKDGN  
 KVDVVGATQGGAGSCSRGPGDGGSRDHWKDLDRKDGKDKQDSRSAPEPKKPEENPASKFSSASKYAALSV  
 DGEDEDEGDDCTE

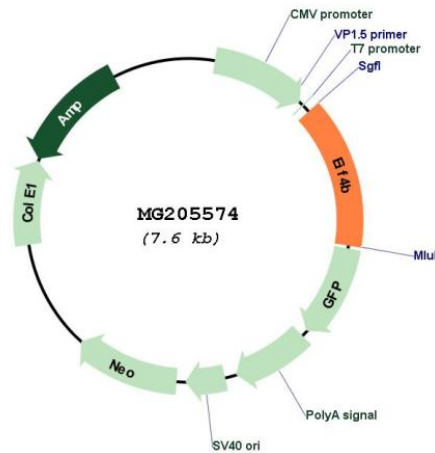
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC007171

<b>ORF Size:</b>	1091 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="#">BC007171</a> , <a href="#">AAH07171</a>
<b>RefSeq Size:</b>	3658 bp
<b>RefSeq ORF:</b>	1091 bp
<b>Locus ID:</b>	75705
<b>Cytogenetics:</b>	15 F2
<b>Gene Summary:</b>	Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F (By similarity).[UniProtKB/Swiss-Prot Function]