

## Product datasheet for **MG206835**

### Eif5 (NM\_178041) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif5 (NM_178041) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif5
Synonyms:	2810011H21Rik; D12Ert549e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206835 representing NM_178041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGTCAACGTCAACCGCAGCGTGTGACACCAGTTCTATCGCTACAAGATGCCCGTTTGATTGCTA  
AGGTTGAGGGCAAAGGAAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGCGCTTAA  
TCGGCCTCCAACGTATCCACCAAATATTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG  
AATGACCGTTACATTGTCAATGGATCTCATGAGCGAATAAGCTGCAAGACATGTTGGATGGATTGATT  
AAAAATTTGTTCTCTGCTGAGTGTGAGAATCCTGAAACAGATCTGCATGTCAATCCAAAGAAGCAAAC  
AATAGGTAATTCTGTAAAGCCTGTGGTACCGAGGCATGCTTGACACACATCATAAACTCTGTACATTC  
ATTCTCAAAAACCCACCTGAGAATAGTGACATTGGTACAGGAAAGAAAAGAAAAGAAAATAGAA  
AGGGCAAGGACAAGGAAATGGCTCTGTATCTACCAGTGAGACACCACCCTCCACCACCAAATGAAAT  
TAGTCCTCCACATGCTGTGGAAGAAGAGGAAGATGATGATTGGGGGGAGGATACAACAGGAAAGCTCAA  
AGGCGCAGAAATGGATGAAATCAGTGACCATGCAAAAGGCTGACACTTAGTGATGATTGGAAAGAACTG  
TAGAAGAGCGTGTAAACATCCTGTTTGATTTGTTAAGAAAAGAAAAGAGAGGGCATTATTGATTGATC  
TGATAAAGAAATGTGGCTGAGGCAGAAAGACTGGATGTAAAAGCCATGGGTCTCTTTGTTTGCAGAA  
GTTCTCTTTGATGAGAAGATAAGAGAGCAAATCAAGAAATACAGGCGCCATTTTCTAAGATTTTGCATA  
ACAACAAAAGGCTCAGCGGTACCTTCTCATGGTTTGAATGTGTGGTAGCAATGCATCAAGCTCAGCT  
GATCTCCAAGATCCACACATCCTGAAGGAGATGTATGATGCCGACCTGTAGAGGAGGAGTCAATTATC  
AGCTGGTCAGAAAAGGCCTCTAAGAAATATGTCTCAAAAGAACTGCCAAAGAGATTCGTGTCAAAGCAG  
AGCCATTTATTAATGGTTGAAGGAAGCAGAGGAAGAACTCTTCTGGTGGTGAAGGAAGATGAAGACGA  
AAATATTGAGGTCGTATATTCGAAAAGTCCAGTGTACAAAAGTTGAACTGTGAAGTCTGACAACAAG  
GATGATGACATTGATATTGACGCCATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206835 representing NM\_178041  
 Red=Cloning site Green=Tags(s)

MSVNVNRSVSDQFYRYKMPRLIAKVEGKNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK  
 NDRYIVNGSHEANKLQDMLDGF IKKFVLCPEENPETDLHVNPKQTIGNSCACGYRGLDTHHKLCTF  
 ILKNPPENDIGTGKKEKEKKNRKGDKENGVSSTSETPPPPPNEISPPHAEVEEEDDDWGEDTTEEAQ  
 RRRMDEISDHAKGLTLDLERTVEERVNILFDVFKKKKEGIIDSSDKEIVAEERLDVKAMGPLVLTE  
 VLFDEKIREQIKKYRRHFLRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEVI  
 SWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEDEEDENIEVVYSKTASVPKVETVYKSDNK  
 DDDIDIDAI

TRTRPLE - GFP Tag - V

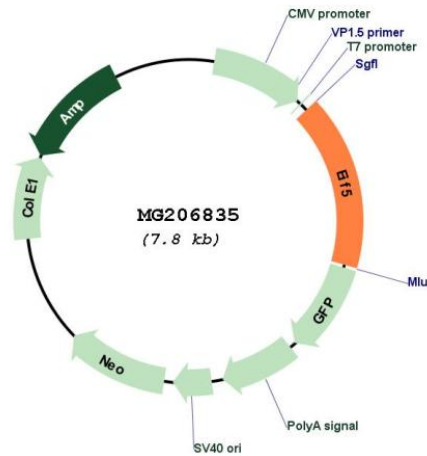
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_178041

<b>ORF Size:</b>	3824 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_178041.2</a>
<b>RefSeq Size:</b>	3703 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	217869
<b>UniProt ID:</b>	<a href="#">P59325</a>
<b>Cytogenetics:</b>	12 61.03 cM
<b>Gene Summary:</b>	Catalyzes the hydrolysis of GTP bound to the 40S ribosomal initiation complex (40S.mRNA.Met-tRNA[F].eIF-2.GTP) with the subsequent joining of a 60S ribosomal subunit resulting in the release of eIF-2 and the guanine nucleotide. The subsequent joining of a 60S ribosomal subunit results in the formation of a functional 80S initiation complex (80S.mRNA.Met-tRNA[F]).[UniProtKB/Swiss-Prot Function]