

## Product datasheet for **MG217322**

### Eif4enif1 (NM\_001166549) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4enif1 (NM_001166549) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif4enif1
Synonyms:	2610509L04Rik; A930019J01Rik; AA410001; AU021239; Clast4; D11Ertd166e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217322 representing NM\_001166549  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAAAAGTGTGGCTGAAACAGAAAATGGAGATGCTTTCCTTGAGCTGAAGAACTGCCACCTCCA  
 AATCCCCCATCGCTATACGAAAGAGGAGCTCTGGATATAAAAGAACGTCCATACTCCAAGCAGAGGCC  
 ATCATGCCTCTCTGAAAAATATGACAGTGATGGTGTCTGGGACCCTGAGAAGTGGCATGCCTCTCTAC  
 CCAGCCTCGGGCGGAGCTCACCAGTGGAAAGTCTGAAGAAAGAGTCAGAATCCGATCGACCTTCTCTGG  
 TGCGCAGAATAGCAGATCCACGAGAGCGAGTGAAGAAGATGACTTAGATGTTGTTCTCAGCCCACAGAG  
 ACGAAGCTTTGGAGGTGGCTGCCATGTGACAGTGTCTGTAGCTCCGACGATCTGGCAGTCCATTGGAG  
 AAAGACAGTGTGACTTCGCTGCTTGGTGGACGAAGAATTGGCAGTGAAGGATAATTTCTGCCCGGG  
 CCTTTGAAAAGGATCACCGTCTCAGTGATAAGGACCTGCGAGACTTGAGAGACCGAGACAGAGAGAGGA  
 CTAACAAGGACAAACGTTTCAGGAGGGAGTTGGAGATAGTAAACGTGTCTTTGGTGAAGCTAGAAGAAAC  
 GATTCATACACTGAGGAAGAACCAGAATGGTTTTAGCTGGACCCACCAGTCACTGAAACCATAGAGC  
 TGAATGGCTTTGATGATAAGATTCTAGAGGAGGATCACAAGGCAGAAAAAGAACAAGGCGACGGACTGC  
 CTCTGTGAAGGAAGGCATAGTGGAGTGCATGGAGGGTGGCTGAAGAGGACGAGGTGGAAGTATTCTG  
 GCCCAGGAGCCCTCTGCTGATCAGGAAGTTCCAAGGGATGTATCCTACCTGAGCAGTCCCAGGAGAAT  
 TTGACTTTAATGAATCTTTAACCTTGATAAGGTGCCATGCTTGGCTTCGATGATAGAAGATGTTCTGGG  
 GGAAGGATCGGTCTCTGCCAGCCGCTTCAGTAGGTGGTCTCTAACCCAAGCCGGTCAGGGAGCAGATCC  
 AGCAGCCTTGGATCCACACCCCATGAAGAACTTGAGAGACTGGCAGGTTGGAGCAAGCCCTCTCTCTC  
 CTGGACAGAACTCGGGGAATTTTGGCTCTATACCATCGGAAGACCATGCTGAAAAATAAAGTGGACAT  
 TTTAGAAATGCTACAGAAAGCCAAAGTAGATTTAAAACCTCTTCTTTCTAGCCTTTCTGCAATAAAGAA  
 AAACCTTAAGGAGAGCTCACATTCAGGGTGTACTTTTCACTGGAAGAGGTAGAAGCAGGGCTGAAGGGCT  
 TGAAAGTGGACCAGCAAATGAAGAATCAACTCCCTTCATGGCAGAACATTTAGAGGAGACCCTGAGTGC  
 TGCGAGTAGCAATAGACAGCTCAAGAAAGATGGAGATAGACTGCATTCAACAAGCTAGTGAACACCATG  
 AAGGCAAGTGGAACTTTGCCTACCCAGCCCAAAGTCAGTGAACCTCTGGGTCAACCGGTTAGAGACCCG  
 CTTCTTCAATCTTCTCAGTGGCCTTATGGGGAGCTTGGAGGCTACTGCATCTTTATTGAGCCAAAGAGC  
 GCCCTCTCTCAATGTACAGGTATTTTGAACCAAGCAGCCTCAGCAGACTACCTTCATCCAAGGATA  
 CCATCACCAATAGGTTTCCCTTCAGGACCCAGCAACTACTTGGAGATCCATTCCAAGGCATGCGCAAGC  
 CCATGAGTCTGTCTCAGCCAGATGAGCCAGTGAATTCAGCAAGCTGCTTTGGAGGGGCTGGCCCT  
 ACCACATGACCTTGCAGTCCAGACAGCACCTTCTACCAGCCTGGTTTTAGCAAACCACAAGTGGACAGA  
 ACCAGAGATGGGCTCAGAAAACAGGCAACAGCGAATGTCAAAGTACCAGCACCCATGCATGGTGGAAAT  
 CCTCTTCCCAGCTCCTGCTGCCATCAACAAGCATGCTTCTCCTTCCCTTACCCCTACCTCAGTGTAT  
 CCGGAAGATGTATGAAAGCAGAGAGAAAACCAAGGAGGAAATGGCACCTGGAATGGTGGTTCCTGGTGT  
 GGTAAGAGGATACTCAGAAGACCAGCGAAGAGAACCTGCTGTATCCAATCCCATAACCAATACTGATC  
 AAGACTCTTCTACGACAAATCCTAAGCTTTCAACATTACAGCGGTCTTCACTGTTCCACCCCACTCTCCA  
 GACCAGCCGTTATACCAAAGAACAAGATTATCGACCTAAAACAGCAGGAAGGAAAAACACCTACCTGGCA  
 TCCCAGTCCCAGGAACACCTTTTCTCCGCCCTACCCACCAAGTTCCCCTTGTCCCTCATGTTCTTATTG  
 TTCGACCTGCACACCAGCTTACCCAGGATTAGTCCAAGGTTGATAGCCCAAGGGGTACATCCACAGCA  
 TCTTCCAAGTTTGTCCAAGCTGGTGTGCTTCTCCTGGGATAGACATGGCTCCTTACAGGGGCTATCT  
 GGCCCACTCCTGGGTCAACCTTGTACCCTTGGTCTCTGCTGCTAGTACCCTCTCCTAAACCCTCGTC  
 CTGGGACCCCTCTGCATTTGGCGGTGATGCAGCAGCAGCTACAGCGCTCAGTTCTGCATCTCCAGGCTC  
 TAGTTCCAGGCAGCAGCTATCAGCGTTCAGACTCCTCAGAATGTACCCAGCCGGTCGGGCATGCCCCAC  
 ATGCACTCCAGCTGGAGCATCGTACCAGCCAAAGGAGCAGCTCCCTGTGGGCTTGCCAAATGGTTTG  
 GCTCAGATGTGCTACAGCAGCCTCTGCCCTCCATGCCACCAAAGTCATCAGTGTAGATGAACTGGAATA  
 TAGACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217322 representing NM\_001166549  
 Red=Cloning site Green=Tags(s)

MEKSVAETENGDAFLELKKLPTSKSPHRYTKEELLDIKERPYSKQRPSCLEKYDSDGVVDPEKWHASLY  
 PASGRSSPVESLKKSESDRPSLVRRADPRERVKEDDLVVLSPQRRSFGGGCHVTAAVSSRRSGSPL  
 KDSGLRLLGRRIGSGRIISARAFEKDHLRSDKDLRDLRDRDRDYKDKRFRREFGDSKRFGERRR  
 DSYTEEEPEWFSAGPTSQSETIELTGFDKILEEDHKGRKRTRRTASVKEGIVECNGGVAEEDVEVIL  
 AQEPSADQEVPRDVIPEQSPGEFDFNEFFNLDKVPLASMIEDVLGEGSVSASRFSRWFNPSRSGSRS  
 SSLGSTPHEELERLAGLEQAVLSPGQNSGNYFAPIPSEDHAENKVDILEMLQKAKVDLKPILLSANKE  
 KLESSHSGVVLVVEEVEAGLKLKVDQMKNSTPFMAEHLEETLSAASSNRQLKKGDMTAFNKLVNTM  
 KASGTLPTQPKVSELLGQPVQRPASSNLLSGLMGSLEATASLLSQRAPSPMSQVFRTOAASADYLHPRI  
 PSPIGFSPGQQLLGDPFQGMKPMSPVSAQMSQLELQQAALGLALPHDLAVQTAPFYQPGFSKPQVDR  
 TRDGLRNRQRMSPAPMHGGNSSPAPAASITSMSPSFTPTSVIRKMYESREKTEEMAPGMVVPD  
 GKEDTQKTSEENLLSSNPINPTDQDSSSTNPKLSTLQRSSCSTPLSQTSTRYKEDYRPKTAGRKTPTLA  
 SPVPGTFLRPTHQVPLVPHVPIVRPAHQLHPGLVQRLIAQGVHPQHLPSLLQAGVLPPIGDMAPLQGLS  
 GPLLGGQPLYPLVSAASHPLLNPRPGTPLHLAVMQQLQRSVLHPPGSSSQAAAISVQTPQNVPSRSGMPH  
 MHSQLEHRTSQRSSSPVGLAKWFGSDVLQQPLPSMPTKVISVDELEYRQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

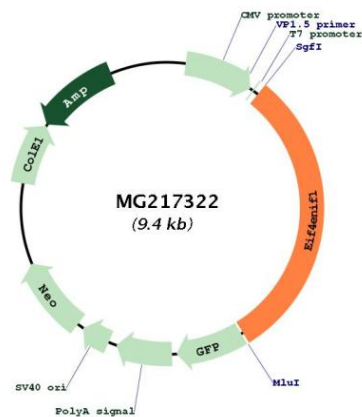


ACCN: NM\_001166549

ORF Size: 2877 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>	<u>NM_001166549.1, NP_001160021.1</u>
<b>RefSeq Size:</b>	3730 bp
<b>RefSeq ORF:</b>	2880 bp
<b>Locus ID:</b>	74203
<b>UniProt ID:</b>	<u>Q9EST3</u>
<b>Cytogenetics:</b>	11 2.24 cM
<b>Gene Summary:</b>	Nucleoplasmic shuttling protein, which inhibits translation initiation. Mediates the nuclear import of EIF4E by a piggy-back mechanism.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG217322