

## Product datasheet for **MG204882**

### Eif2s2 (NM\_026030) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2s2 (NM_026030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif2s2
Synonyms:	38kDa; 2810026E11Rik; AA408636; AA571381; AA986487; AW822225; D2Ertd303e; EIF2; EIF2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204882 representing NM_026030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCGGGGACGAGATGATTTTTGATCCTACTATGAGCAAAAAGAAAAAGAAGAAGAAGCCTTTTA  
TGTTAGATGAAGAAGGTGATGCCAGACAGAAGAAACCCAGCCCTCAGAGACAAAAGAAGTGGAGCCAGA  
ACCAACTGAAGAAAAGACGTGGACGCTGATGAGGAAGACAGTAGGAAGAAAGATGCTTCTGATGACTTA  
GATGATTTGAACCTCTTTAATCAAAGAAAAGAAAAGACAAAAAGATATTTGACATTGATGAAG  
CTGAAGAAGCTATAAAGGATGTTAAGATTGAGAGTGATGCTCAAGAGCCAGCCGAGCCAGAGGATGACCT  
TGACATTATGCTTGGCAACAAAAAAGAAAAGAAATGTTAAATCCAGAAGAAGATGAAATACTA  
GAAAAAGACGAAGCTTTAGAAGATGAAGACAGCAAAAAAGATGATGGCATTTCATTCACTAGCCAAACTG  
CTTGGGCAGGCTCAGAAAGAGACTACACATATGAGGAGTTGCTGAACCGAGTGTCAACATCATGAGAGA  
AAAGAATCCAGATATGGTTGCTGGAGAGAAGAGGAAATTTGTTATGAAACCTCCACAGGTCGTCAGTA  
GGAACCAAGAAAACCTCTTTTGTCAATTTACAGATATCTGTAACCTATTACATCGTCAACCCAAACATC  
TCCTTGCATTTTTATTGGCAGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTGTAAATCAA  
AGGAAGATTCCAACAGAAAACAAATAGAAAATGTCTTGAGAAGATATCAAGGAATATGTCACCTTGTCAC  
ACATGCCGGTCACCGACACAATCCTACAGAAGGACACCCGACTCTATTTCTTACAATGTGAACTTGTC  
ATTCTCGATGCTCTGTTGCCAGTATCAAACCTGGCTTCCAGGCTGTCACAGGCAAGCGAGCACAGCTCCG  
TGCCAAAGCTAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204882 representing NM\_026030  
Red=Cloning site Green=Tags(s)

MSGDEMIFDPTMSKKKKKKKPFMLDEEGDAQTEETQPSETKEVEPEPTEEKDVADEEDSRKKDASDDL  
 DDLNFFNQKKKKKKTKKIFDIDEAEEAIKDVKIESDAQEPAEPEDDLDIMLGNKKKKKNVKFPEEDEIL  
 EKDEALEDEDSKKDDGISFSSQTAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRV  
 GTKKTSFVNFTDICKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCH  
 TCRSPDTILQKDRLYFLQCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

TRTRPLE - GFP Tag - V

**Restriction Sites:**

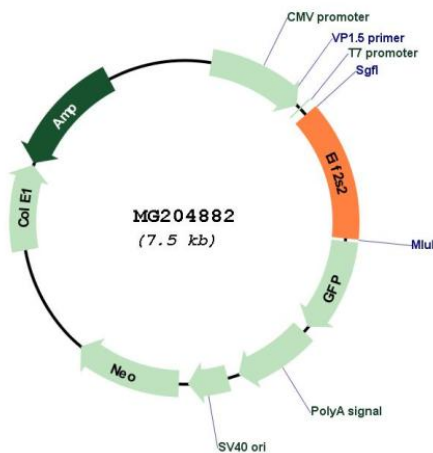
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_026030

**ORF Size:** 993 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_026030.2</a> , <a href="#">NP_080306.1</a>
<b>RefSeq Size:</b>	2513 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	67204
<b>UniProt ID:</b>	<a href="#">Q99L45</a>
<b>Cytogenetics:</b>	2 76.89 cM
<b>Gene Summary:</b>	eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B (By similarity).[UniProtKB/Swiss-Prot Function]