

## Product datasheet for MR212048L4

### Eif4g1 (NM\_145941) Mouse Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4g1 (NM_145941) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Eif4g1
Synonyms:	E030015G23Rik; eIF-4-gamma 1; eIF-4G 1; eIF-4G1; eIF4G1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR212048).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

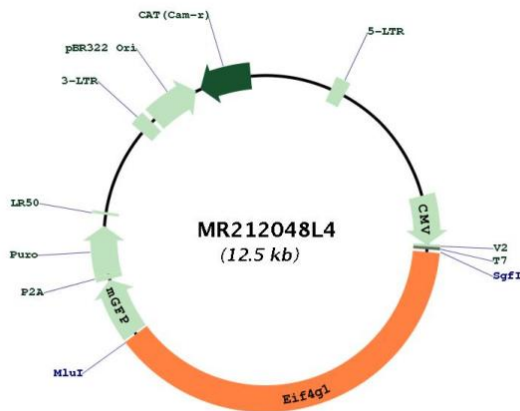
Cloning sites used for ORF Shuttling:



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



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**Plasmid Map:**


**ACCN:** NM\_145941

**ORF Size:** 4800 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_145941.2](#), [NP\\_666053.2](#)

**RefSeq Size:** 5481 bp

**RefSeq ORF:** 4803 bp

Locus ID: 208643

UniProt ID: [Q6NZJ6](#)

Cytogenetics: 16 B1

**Gene Summary:** This gene encodes a member of the eukaryotic translation initiation factors (eIF) that play important roles in translation initiation by mediating recruitment of additional initiation factors and providing a scaffold for ribosome/mRNA-bridging. Along with eIF4A and eIF4E, the encoded protein forms the eIF4F complex that bridges the 5' UTR with the polyadenylated 3' UTR resulting in mRNA circularization, enhanced translation initiation and mRNA stability. Through its association with eIF3, the encoded protein mediates recruitment of the 43S pre-initiation complex to mRNA. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes for this gene have been identified on chromosomes 2 and 13. [provided by RefSeq, Jan 2015]