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Product datasheet for MR212048

Eif4g1 (NM_145941) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4g1 (NM_145941) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif4g1
Synonyms:	E030015G23Rik; eIF-4-gamma 1; eIF-4G 1; eIF-4G1; eIF4GI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>MR212048 representing NM_145941
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR212048 representing NM_145941
Red=Cloning site Green=Tags(s)

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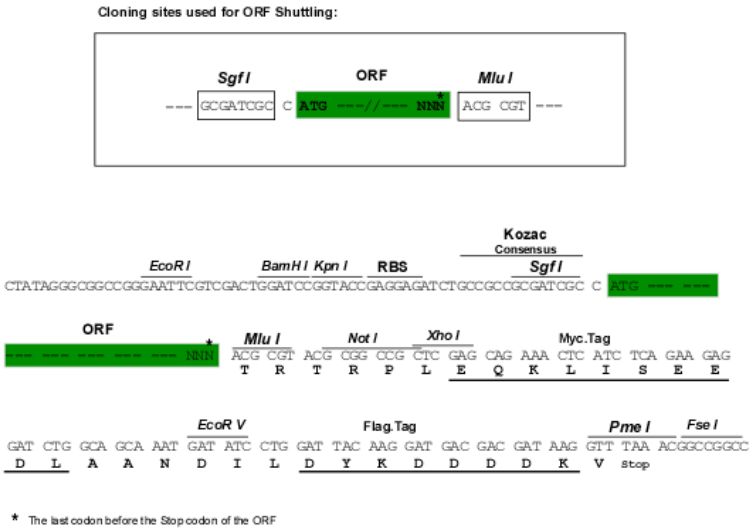
Chromatograms: https://cdn.origene.com/chromatograms/mm9040_f03.zip

Restriction Sites: SgfI-MluI

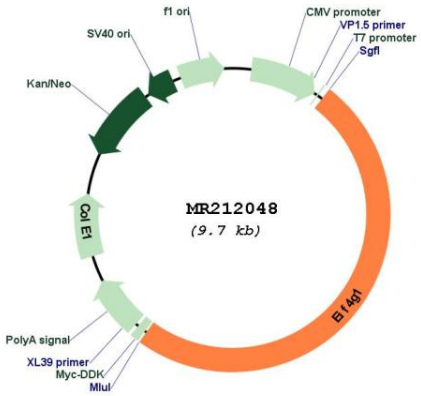
Cloning Scheme:



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_145941.3, NP_666053.2
RefSeq Size:	5481 bp
RefSeq ORF:	4803 bp
Locus ID:	208643
UniProt ID:	Q6NZJ6
Cytogenetics:	16 B1
MW:	176.5 kDa
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]

Product images:



Circular map for MR212048