

Product datasheet for **MC208067**

Eif2s2 (NM_026030) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Eif2s2
Synonyms:	38kDa; 2810026E1IRik; AA408636; AA571381; AA986487; AW822225; D2ErtD303e; EIF2; EIF2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC208067 representing NM_026030
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCGGGACGAGATGATTTTTGATCCTACTATGAGCAAAAAGAAAAAGAAAGAAGAAGCCTTTTA
TGTTAGATGAAGAAGGTGATGCCAGACAGAAACCAGCCCTCAGAGACAAAAGAAGTGGAGCCAGA
ACCAACTGAAGAAAAGACGTGGACGCTGATGAGGAAGACAGTAGGAAGAAGATGCTTCTGATGACTTA
GATGATTTGAACTTCTTTAATCAAAAAGAAAAGAAAAAGACAAAAAGATATTTGACATTGATGAAG
CTGAAGAAGCTATAAAGGATGTTAAGATTGAGAGTGATGCTCAAGAGCCAGCCGAGCCAGAGGATGACCT
TGACATTATGCTTGCCAACAAAAAGAAAAGAAAGATGTTAAATCCAGAAAGAAGATGAAATACTA
GAAAAAGACGAAGCTTTAGAAGATGAAGACAGCAAAAAGATGATGGCATTTCATTTCAGTAGCCAAACTG
CTTGGCAGGCTCAGAAAGAGACTACACATATGAGGAGTTGCTGAACCGAGTGTCAACATCATGAGAGA
AAAGAATCCAGATATGTTTGCTGGAGAGAAGAGAAATTTGTTATGAAACCTCCACAGGTCGTCGGAGTA
GGAACCAAGAAAACCTCTTTTGCAATTTTACAGATATCTGTAACATATTACATCGTCAACCCAAACATC
TCCTTGCAATTTTATTGGCAGAATTGGGTACAAGTGGTCTATAGATGGTAATAACCAACTGTAAATCAA
AGGAAGATCCACAGAAACAATAGAAAATGCTTGAGAAGATATCAAGGAATATGTCACCTTGTCAC
ACATGCCGGTCACCGGACACAATCCTACAGAAGGACACCCGACTCTATTTCTTACAATGTGAAACTGTGTC
ATTCTCGATGCTCTGTTGCCAGTATCAAACTGGCTTCCAGGCTGTACAGGCAAGCGAGCACAGCTCCG
TGCCAAAGCTAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



ACCN:	NM_026030
Insert Size:	996 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_026030.2 , NP_080306.1
RefSeq Size:	2513 bp
RefSeq ORF:	996 bp
Locus ID:	67204
UniProt ID:	Q99L45
Cytogenetics:	2 76.89 cM
Gene Summary:	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]