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Product datasheet for MC216487

Eif2s3x (NM_012010) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2s3x (NM_012010) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif2s3x
Synonyms:	AA409828; AA547477; AI314668; Eif-2gx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC216487 representing NM_012010
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGGGGTGAGGGTGGAGTGACTCTCGGTCAGCCCCATCTTTCCCGACAGGATCTCGCCACATTGG
ATGTTACCAAGTTGACACCACTTTCACATGAAGTTATCAGCAGACAAGCTACAATTAATATTGGTACAAT
TGGTCACGTAGCTCATGGGAAGTCCACTGTGGTGAAGGCTATTTCTGGAGTTCACACTGTCAGATTCAAA
AATGAACTCGAAAGGAACATTACCATCAAGCTTGGATATGCTAATGCTAAGATTTATAAACTTGATGACC
CAAGTTGTCCTAGACCAGAATGTTACAGATCGTGTGGAAGCAGCACACCAGATGAGTTTCCTACAGACAT
TCCGGGGACCAAAGGGAACTTCAAGTTAGTCAGGCATGTTTCCTTTGTTGACTGTCCTGGCCATGATATT
TTGATGGCTACGATGCTGAACGGTGCAGCAGTGATGGATGCGGCCCTTCTGTTGATAGCTGGTAACGAAT
CATGCCCTCAGCCCCAGACTTCCGAACACCTGGCTGCCATAGAAATCATGAAACTCAAGCATATTTTGAT
CTTACAGAATAAAATTGATCTGGTAAAAGAAAGTCAGGCTAAGGAACAATATGAGCAAATCCTCGCATTT
GTGCAAGGAACCGTAGCAGAAGGGGCACCAATTATTCCAATTTCTGCTCAACTGAAGTACAATATTGAAG
TTGTCTGTGAGTATATAGTGAAGAAAATACCAGTGCCCCCAAGAGACTTTACTTCAGAGCCCCGTCTCAT
TGTCATCAGGTCATTTGATGTCAACAAACCTGGCTGTGAAGTCGATGACCTTAAGGGAGGTGTAGCTGGT
GGTAGTATCCTAAAAGGAGTGTTAAAGGTAGGCCAGGAGATAGAAGTGAGACCCGGTATTGTCTCCAAAG
ACAGTGAAGGAAAACTCATGTGTAAACCAATCTTTTCCAAAATTGTGTCACTTTTTGCGGAACATAATGA
TCTTCAATATGCTGCCCCGGGTGGTCTCATTGGAGTTGGAACAAAGATCGACCCCACCTTGTGCCGAGCT
GACAGAATGGTGGGACAAGTGCTCGGTGCAGTTGGAGCTTTACCTGAAATATTCACCGAACTGGAGATTT
CCTATTTCCTGCTTAGACGTCTTCTGGGTGTACGTACTGAAGGAGACAAGAAAGCAGCAAAGGTCCAAAA
GCTGTCTAAGAATGAAGTGCTTATGGTCAACATAGGCTCCCTGTCGACAGGAGGAAGAGTTAGTGCAGTC
AAGGCTGATTTGGGCAAAATTGTTTTGACCAATCCCGTGTGCACAGAAGTAGGAGAAAAAATTGCCCTTA
GCAGAAGAGTTGAGAAACACTGGCGTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACCATTAAGCC
AACTGTAGATGATGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012010

Insert Size: 1419 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:

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_012010.3, NP_036140.1
RefSeq Size:	3587 bp
RefSeq ORF:	1419 bp
Locus ID:	26905
UniProt ID:	Q9Z0N1
Cytogenetics:	X 41.52 cM
Gene Summary:	As a subunit of eukaryotic initiation factor 2 (eIF2), involved in the early steps of protein synthesis. In the presence of GTP, eIF2 forms a ternary complex with initiator tRNA Met-tRNAi and then recruits the 40S ribosomal complex, a step that determines the rate of protein translation. This step is followed by mRNA binding to form the 43S pre-initiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF2 and release of an eIF2-GDP binary complex. In order for eIF2 to recycle and catalyze another round of initiation, the GDP bound to eIF2 must exchange with GTP by way of a reaction catalyzed by eIF2B (By similarity). Along with its paralog on chromosome Y, may contribute to spermatogenesis up to the round spermatid stage (PubMed:26823431).[UniProtKB/Swiss-Prot Function]