

Product datasheet for MC200511

Eif2s1 (BC005463) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2s1 (BC005463) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif2s1
Synonyms:	eIF2alpha, 35kDa
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC005463
GGCGTCCGGGTTGGTGTCCGAGTCTCCTCGTTGCCACTAAGCAGCACGGCGTGGGACCCTACTTCGGG
ATTCACACATCCACTTCAGAATGCCGGGCTAAGTTGTAGATTTTATCAACACAAATTCCTGAGGTGGA
AGATGTAGTGATGGTGAATGTAAGATCCATTGCTGAAATGGGGGCTATGTCAGCTTGTGGAAATAAAT
AACATTGAAGGCATGATTCTTCTTAGTGAATTATCCAGACGACGTATCCGTTCTATAAACAACTGATCC
GAATTGGCAGAAATGAATGTGTTGTGTCATTAGAGTGGATAAAGAAAAAGGATATATAGATTTGTCAA
AAGAAGAGTTTCTCCAGAGGAAGCAATCAAATGTGAGGACAAATTCACAAATCCAAACTGTTTATAGC
ATTCTTCGCCATGTTGCTGAGGTATTAGAATATACCAAGGATGAGCAGCTGGAGAGCCTGTTCCAGAGGA
CTGCCTGGGTCTTCGATGACAAGTACAAGAGACCTGGATACGGTGCCTATGATGCTTTTAAGCATGCAGT
CTCAGACCCATCTATCTGGATAGTTTAGATTTGAATGAAGATGAAAGAGAAGTACTCATTAAATAATATC
AATAGGCGTTTGACCCCAAGCGGTCAAATTCGAGCAGATATTGAAGTAGCTTGTATGTTATGAAG
GCATTGATGCTGTAAAAGAAGCCCTGAGGGCAGGTTTGAATTGTTCTACAGAAACCATGCCCATCAAGAT
TAATCTAATAGCTCCACCCAGGTATGTGATGACAACAACGACCCTGGAGAGGACAGAAGGCTGTCTGTC
CTCAATCAGGCTATGGCAGTTATCAAAGAGAAGATCGAGGAGAAGAGGGGCGTCTCAATGTTTCAGATGG
AGCCCAAAGTGGTACAGATACAGATGAGACTGAACCTGCAAGGCAGCTGGAACGGCTGGAGAGAGAAAA
TGCAGAAGTGGATGGAGATGATGATGCAGAAGAAATGGAAGCCAAAGCTGAAGATTAACGTTTGGCAA
CAGTCCAATTTAAGGAGTACGAAGCAGCCCTTCTGGCTGTCAACCCTAGACTTGAGAGTTTTCCAGTAT
TGAAAACCTCAAAGCTGAATATTTTTATTTCCAAGTATTTAAGTATTCAACAAGCCAGAATCTAAATGCC
CTCCTTATGTCAGCTGTTTTACATAGTGGCTTAACACCTCAAGCATTTTTCAAGGGAGTGGCTTGAT
TTGACCAGAGACAAATCTTAAACAGCAGTCTAATATTGGGCTACAGTTTCCATTTCTCATGCTCTGG
AATGGCACCCCTTATGGTTCAGAGATTTACCAGGGACTCCAACACAAACAATCCCAATCTTTCTATATAA
AATGTATTCAAGCAAACATCAAATAAATTTCTGGGATATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	BC005463
Insert Size:	948 bp



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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.
RefSeq:	BC005463 , AAH05463
RefSeq Size:	1479 bp
RefSeq ORF:	948 bp
Locus ID:	13665
Cytogenetics:	12 C3
Gene Summary:	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 pre-initiation 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]