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Product datasheet for SC117677

EIF2S2 (NM_003908) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2S2 (NM_003908) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF2S2
Synonyms:	eIF-2-beta; EIF2; EIF2B; EIF2beta; PPP1R67
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_003908 edited
GAATTCGGCACGAGGCTTTCGCTGATGCAAGAGCCTAGTGCGGTGGTGGGAGAGGTATCG
GCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCCG
AGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCA
AGAAGAAAAAGAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAG
AGGAAACCCAGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATT
TGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGATGATCTAGATGACTTGA
ACTTCTTTAATCAAAAGAAAAAGAAGAAAAAAACTAAAAAGATATTTGATATTGATGAAG
CTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAG
AGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGAATGTTAAGTTCC
CAGATGAGGATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAAG
ATGATGGTATCTCATTCAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACT
ACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATA
TGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAA
CCAAGAAAACTTCTTTTGTCAACTTTACAGATATCTGTAAACTATTACATCGTCAGCCCA
AACATCTCCTTGCATTTTTGTTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATA
ACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGAGAAGAT
ATATCAAGGAATATGTCACTTGTCACACATGCCGATCACCGGACACAATCCTGCAGAAGG
ACACACGACTCTATTTCCTACAGTGCGAAACTTGTCATTCTAGATGTTCTGTTGCCAGTA
TCAAAACCGGCTTCCAGGCTGTCACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACT
AATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTTGCC
ATCAGAGTGGATATACCGTTGTATTAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGC
GAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTG
CCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATC
GTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGAAAAAAAAA
AAAAAAAAACTCGAC

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003908 unedited
GGCTTTAGNATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCTTTCGC
TGATGCAAGAGCCTAGTGCGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGG
GGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCAT
GTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAGAAGAAGAA
GCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCAGCCTTCAGAAAC
AAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACAC
TAGGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAA
GAAGAAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCT
TAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGCT
TGGCAATAAAAAGAAGAAAAAGAAGAATGTTAAGTTCCCAGATGAGGATGAAATACTAGA
GAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAAGATGATGGTATCTCATTCAGTAA
TCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAA
TCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGAAA
TTTGTCATGAAACCTCCACAGTCGTCCGAGTAGGAACCAAGANAACTTCTTTTGTNCACT
NTACAGATATCTGGTAACTATTACATCGTCAGCNCAAACATCTCCTTGCATTNTTGTTGG
CTGAATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003908 unedited
CCCGCATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTCACTGTTATAATAACTTTAATTT
ATCTTGCATTTTACAGAAGTCTATGAACGATTTTAAAAAAGCACCTCCTTACCCCATATC
ACGTTTCTCTGACAGGTGTTAAAGTAGGCAATGAGTATGTCAACAGCTTGAGCATCAGCG
TCTTGCAAGGACTTCAGACCAACCACTCGCCAAAAATCTTGGCAGCTTTTTTATCTTGTT
TTTAATACAACGGTATATCCACTCTGATGGCAAACCTGTCCAGCCACATCTCCACAACAA
GCTTTGCAAAATCAGTGATTAGCAAATTAGTTAGCTTTGGCACGGAGCTGTGCTCGCTTG
CCCGTGACAGCCTGGAAGCCGGTTTTGATACTGGCAACAGAACATCTAGAATGACAAGTT
TCGCACTGTAGGAAATAGAGTCGTGTGTCCTTCTGCAGGATTGTGTCCGGTGATCGGCAT
GTGTGACAAGTGACATATTCCTTGATATATCTTCTCAAGACATTTTCTATCTGTTTCTGT
TGGAATCTTCCTTTGATTACAAGTTGGTTATTACCATCTATAGAACCACTTGTACCCAAT
TCAGCCAACAAAAATGCAAGGAGATGTTTGGGCTGACGATGTAATAGTTTACAGATATCT
GTAAAGTTGACAAAAGAAGTTTTCTTGGTTCCTACTCGGACGACTTGTGGAGGTTTCATG
ACAAATTTCCTTTTCTCCCCACAACCATATCTGAATTCTTTTCCCTCATGATGTTGAACA
CTCCGATCAGCAGCCTCTCGTATGTGTAGTCTCTTTTTGAGCCTGCCCAAGCAGGGCCTG
TCTGATTACTGAATGAGAAACCATCATCCTTTTTTGTTGCCTTCATTCTCTAGAGCTNCA
CCTTCTCTAGACTTCAACCTCATCTGGGAACCTAACATTCTTCTTTTCTTCTTTTATTGC
CAGCATATGCAGGNCATCCTCTGGTTAATTGGTCCTAGACTCACTTAT

Restriction Sites: NotI-NotI

ACCN: NM_003908

Insert Size: 1430 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_003908.2, NP_003899.2
RefSeq Size:	1439 bp
RefSeq ORF:	1002 bp
Locus ID:	8894
UniProt ID:	P20042
Cytogenetics:	20q11.22
Domains:	eIF2B_5
Gene Summary:	Eukaryotic translation initiation factor 2 (EIF-2) functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA and binding to a 40S ribosomal subunit. EIF-2 is composed of three subunits, alpha, beta, and gamma, with the protein encoded by this gene representing the beta subunit. The beta subunit catalyzes the exchange of GDP for GTP, which recycles the EIF-2 complex for another round of initiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.