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Product datasheet for SC113103

EIF2B3 (NM_020365) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B3 (NM_020365) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF2B3
Synonyms:	EIF-2B; EIF2Bgamma
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC113103 sequence for NM_020365 edited (data generated by NextGen Sequencing)

ATGGAATTTCAAGCAGTAGTGATGGCAGTAGGTGGAGGATCTCGGATGACAGACCTAACT
TCCAGCATTCCCAAACCTCTGCTTCCAGTTGGGAACAAACCTTTAATTTGGTACCCATTG
AACCTGCTTGAGCGTGTTGGATTTGAAGAAGTCATTGTGGTTACAACCAGGGATGTTCAA
AAGGCTCTATGTGCAGAATTCAAGATGAAAATGAAGCCAGATATTGTGTGTATTCCTGAT
GATGCTGACATGGGAACTGCAGATTCTTTGCGCTACATATATCCAAAACTTAAGACAGAT
GTGCTGGTGCTGAGCTGTGATCTGATAACAGACGTTGCCTTACATGAGGTTGTGGACCTG
TTTAGAGCTTATGATGCATCACTTGCTATGTTGATGAGAAAAGGCCAAGATAGCATAGAA
CCTGTTCCCGGTCAAAAGGGGAAAAAAAAAGCAGTGGAGCAGCGTGACTTCATTGGAGTG
GACAGCACAGGAAAGAGGCTGCTCTTCATGGCTAATGAAGCAGACTTGGATGAAGAGCTG
GTCATTAAGGGATCCATCCTACAGAAGCATCCTAGAATACGTTTCCACACGGGTCTTGTG
GATGCCCACCTCTACTGTTTGAAAAAATACATCGTGGATTTCCTAATGGAAAATGGGTCA
ATAACTTCTATCCGGAGTGAACTGATTCCATATTTAGTGAGAAAACAGTTTTCCTCAGCT
TCCTCACAACAGGGACAAGAAGAAAAAGAGGAGGATCTAAAGAAAAAGGAGCTGAAGTCC
TTAGATATCTACAGTTTTATAAAAGAAGCCAATACACTGAACCTGGCTCCCTATGATGCC
TGCTGGAATGCCTGTCGAGGAGACAGGTGGGAAGACTTGTCCAGATCACAGGTGCGCTGC
TATGTCCACATCATGAAAGAGGGGCTCTGCTCTCGAGTGAGCACACTGGGACTCTACATG
GAAGCAAACAGACAGGTGCCCAAATTGCTGTCTGCTCTCTGTCCAGAAGAACCACCAGTC
CATTCGTCAGCCCAGATTGTCAGCAAACACCTGGTTGGAGTTGACAGCCTCATTGGGCCA
GAGACACAGATTGGAGAGAAGTCATCCATTAAGCGCTCAGTCATTGGCTCATCCTGTCTC
ATAAAAGATAGAGTGACTATTACCAATTGCCTTCTCATGAACTCAGTCACTGTGGAGGAA
GGAAGCAATATCCAAGGCAGTGTCATCTGCAACAATGCTGTGATCGAGAAGGGTGCAGAC
ATCAAGGACTGCTTGATTGGAAGTGGCCAGAGGATTGAAGCCAAAGCTAAACGAGTGAAT
GAGGTGATCGTGGGGAATGACCAGCTCATGGAGATCTGA

Clone variation with respect to NM_020365.3
243 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020365 unedited
CACATTTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCGGCGTGCGGGG
AGCTGAGTTATAGCTGTGACTTCTGCCCTGCCAGGCCGCACACAAGCTGGCTGACCCGGT
TTGTAAAAATGGAATTTCAAGCAGTAGTGATGGCAGTAGGTGGAGGATCTCGGATGACAG
ACCTAACTTCCAGCATTCCCAAACCTCTGCTTCCAGTTGGGAACAAACCTTTAATTTGGT
ACCCATTGAACCTGCTTGAGCGTGTTGGATTTGAAGAAGTCATTGTGGTTACAACCAGGG
ATGTTCAAAAGGCTCTATGTGCAGAATTCAAGATGAAAATGAAGCCAGATATTGTGTGTA
TTCCTGATGATGCTGACATGGGAACTGCAGATTCTTTGCGCTACATATATCCAAAACTTA
AGACAGATGTGCTGGTGCTGAGCTGTGATCTGATAACAGACGTTGCCTTACATGAGGTTG
TGGACCTGTTTAGAGCTTATGATGCATCACTTGCTATGTTGATGAGAAAAGGCCAAGATA
GCATAGAACCTGTTCCCGGTCAAAAGGGGAAAAAAAAAAGCAGTGGAGCAGCGTGACTTCA
TTGGAGTGGACAGCACAGGAAAGAGGCTGCTCTTCATGGCTAATGAAGCAGACTTGGATG
AAGAGCTGGTCATTAAGGGATCCATCCTACAGAAGCATCCTAGAATACGTTTCCACACGG
GNTCTTGTGGATGCCCACCTCTACTGTTNGAAAAATACATCGTGGATTTCCTAATGGAAA
ATGGGNNTCATACTTCTATCCNNGAGTGACTGNATNNCATATTAGTGANGAAACAGTTTT
TCTCAGCTTCCCCTCACACAGGGACCAGAAGAAAAGAGNAGGATCTAANGAAAAGGAGNN
CTGAGTCNTAGTATCTACANTTTTATAAAGAAGCCATACACTGAACTGGNCTCCTATGAT
GCTGCTGNAATGCTGTCNAGGAAC

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_020365 unedited
GATCGCTGCCGCAATTTANATCTAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTACCCCTGGGACCCCACCTGACATGGGACCTTTGGACTGGTC
CACAAGTCTCCAGCATGCCTTTGGAAGCCCTTTTTTATTGGGAAATAAATACCGAGTTAA
ACAGGGGGGCCGGCCAACATCTGGGGCTTTTTAGGCCAAAAGGAAGGAGTCTGACTTGGT
CAAAACTCAAATCTCCATGAGCTGGTCATTCCCCACGATCACCTCATTCACTCGTTTAGC
TTTGGCTTCAATCCTTTGGCCACTTCCAATCAAGCAGTCCTTGATGTCTGCCCCCTTTTC
GATCACAGCATTGTTGCAAATGACACTGCCTTGGATATTGCTTCCTTCCTCCCAGGGACT
GAGTTCATGAAAAGGCAATTGGGAATAGTCACTCTATCTTTTATGAAACAGGATGAGCCA
ATGACTGAGCGCTTAATGGATGACTTCTCTCCAATCTGTGTCTCTGGCCCAATGAGGCTG
TCAACTCCAACCAGGTGTTTGCTGACAATCTGGGCTGACCAATGGACTGGTGGTTCTTCT
GGACAGAAAGCACACAGCAATTTGGGCACCTGTCTGTTTTGCTCCATGTAGAGTCCCCAG
TGGGCTCACTCGAAAGCAGAGCCCCTTTTCATGATGTGGACATAGCAGCGCACCTGTGAT
CTGGACAGATTTTCCCACCTGTTTTCTCGACAGGGATTCCAGCAGGCATTATAAGGAGCC
AGGTTCCAGGGATTGCCTTCTTTTTAAAACTGGGAAATCTTAGGACTCCGCTCCTTTTTC
TTTAAACCTCCCCTTTTTTTTTTGCCCCCTGTGGGAGAAACTTGAGAAACTGTTTTCCCC
TAAATATGGAACAGTTCCTCCGGAAGAAATTTTGCCCCTTTCCCTTAGAAACCCCCAGTT
TTTTTCAACAGAGAGGGGCCCTN
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Restriction Sites: NotI-NotI

ACCN: NM_020365

Insert Size: 2000 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_020365.1, NP_065098.1

RefSeq Size: 1602 bp

RefSeq ORF: 1359 bp

Locus ID: 8891

UniProt ID: Q9NR50

Cytogenetics: 1p34.1

Domains: NTP_transferase

Gene Summary: The protein encoded by this gene is one of the subunits of initiation factor eIF2B, which catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP. It has also been found to function as a cofactor of hepatitis C virus internal ribosome entry site-mediated translation. Mutations in this gene have been associated with leukodystrophy with vanishing white matter. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Transcript Variant: This variant (1) encodes the longer isoform (1).