

Product datasheet for **RG233986**

EIF2B3 (NM_001261418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B3 (NM_001261418) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF2B3
Synonyms:	EIF-2B; EIF2Bgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233986 representing NM_001261418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAATTTCAAGCAGTAGTGATGGCAGTAGGTGGAGGATCTCGGATGACAGACCTAACTCCAGCATTCCAAACCTCTGCTTCCAGTTGGGAACAAACCTTTAATTTGGTACCCATTGAACCTGCTTGAGCGTGTGGATTTGAAGAAGTCATTGTGGTTACAACAGGGATGTTCAAAGGCTCTATGTGCAGAATTCAGATGAAATGAAGCCAGATATTGTGTATTCTGATGACGCTGACATGGAACTGCAGATTCTTTCGCTACATATATCCAAAACCTTAAGACAGATGTGCTGGTCTGAGCTGTGATCTGATAACAGACGTTGCCTTACATGAGGTGTGGACCTGTTTAGAGCTTATGATGCATCACTTGCTATGTTGATGAGAAAAGGCCAAGATAGCATAGAACCTGTTCCCGTCAAAAGGGGAAAAAAGCAGTGGAGCAGCGTGACTTCATTGGAGTGGACAGCACAGGAAAGAGGCTGCTTTCATGGCTAATGAAGCAGACTTGGATGAAGAGCTGGTCATTAAGGGATCCATCCTACAGAAGCATCCTAGAAATACGTTTCCACACGGGTCTTGTGGATGCCCACCTCTACTGTTTGAAAAATACATCGTGGATTTCCCTAATGGAAATGGGTCAATAACTTCTATCCGGAGTGAAGTATTCCATATTTAGTGAGAAAACAGTTTTCTCAGCTTCTCACACAGGGACAAGAAGAAAAGAGGAGGATCTAAGAAAAAGGAGCTGAAGTCCTTAGATATCTACAGTTTATAAAAGAAGCCAATACACTGAACCTGGCTCCCTATGATGCCGTCTGGAATGCCGTGCGAGGAGACAGGTGGGAAGACTTGTCAGATCACAGGTGCGCTGCTATGTCCACATCATGAAAGAGGGCTCTGCTCTCGAGTGAGCACACTGGGACTCTACATGGAAGCAAACAGACAGGTGCCCAAATTGCTGTCTGCTCTGTCCAGAAGAACCACAGTCCATTGCTCAGCCAGATTGTGAGCAAAACACCTGTTGGAGTTGACAGCCTCATTGGGCCAGAGACAGATTGGAGAGAAGTCATCCATTAAGCGCTCAGTCATTGGCTCATCCTGTCTCATAAAGATAGAGTGACTATTACCAATTGCCTTCTCATGAACTCAGTCACGTGGAGGAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG233986 representing NM_001261418
 Red=Cloning site Green=Tags(s)

MEFQAVVMAVGGGSRMTDLTSSIPKPLLPVGNKPLIWYPLNLLERVGFEEVIVVTTTRDVQKALCAEFKMK
 MKPDIVCIPDDADMGADSLRYIYPKPKTDVLVLSCDLITDVALHEVVDLFRAYDASLAMLMRKGQDSIE
 PVPGQKGGKKAVEQRDFIGVDSTGKRLLFMANEADLDEELVIKGSILQKHPRIRFHTGLVDAHLYCLKKY
 IVDFLMENGSIITSIRSELIPYLVRKQFSSASSQQGQEEKEEDLKKKELKSLDIYSFIKEANTLNLAPYDA
 CWNACRGDRWEDLSRSQVRCYVHIMKEGLCSRVSTLGLYMEANRQVPKLLSALCPEEPPVHSSAQIVSKH
 LVGVDSLIGPETQIGEKSSIKRSVIGSSCLIKDRVTITNCLLMNSVTVEEG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001261418

ORF Size: 1203 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001261418.1, NP_001248347.1

RefSeq Size: 1923 bp

RefSeq ORF: 1206 bp

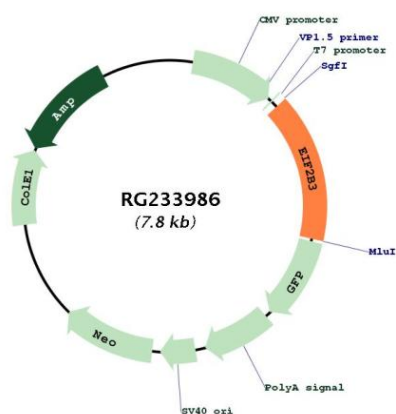
Locus ID: 8891

UniProt ID: Q9NR50

Cytogenetics: 1p34.1

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]

Product images:



Circular map for RG233986