

Product datasheet for **RG210634**

EIF2B4 (NM_001034116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B4 (NM_001034116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF2B4
Synonyms:	EIF-2B; EIF2B; EIF2Bdelta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210634 representing NM_001034116
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTCTGGCCGTGGCTGTTCCGCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGC
 CTGGGGCAGTGGGGAGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAA
 GAAGAAACGGAAGGAAGAAAAGGGGCGAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAA
 GTAGGCCCAACCAGAGAAGTCCAGAAATCGGGCATTTCAGTTGGGCACTCCTCGGGAGAAAGTTCCAGCTG
 GTCGGAGTAAGGCCGAACCTCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGC
 AAGAAAAGGGGAACAAGGAGGACCCTCTAAGGCCAGCCCAGCACAGCTGGAGAAACCCCTCAGGA
 GTGAAGCGTCTCCCTGAGTACCCTCAGTTGATGACCTACTTCTGAGAAGGCTTGTAAAAAACAGAGC
 GTCAACAGGTTCTACACGAAAGGATTATGGATCCAAAGTCAGTCTTCTCTCACCTACCCAGTACAG
 CAGACAAAACCTCTGACCCAGTTTATGAGCATCCCATCTCTGTGATCCACCCAGCCATGGTGCAGCTC
 GGCTGCAGTACTCCAGGGCCTGGTCAGTGGCTCCAATGCCCGGTGATTGCCCTGCTTCGTGCCTTGC
 AGCAGGTGATTACAGATTACACAACACCCGCTAATGAAGAAGTCTCCAGGGATCTAGTGAATAAACTAAA
 ACCCTACATGAGCTTCTGACTCAGTGCCTGCCCTGTCAGCGAGCATGCACAACGCCATCAAGTTCCTT
 AACAAAGGAAATCACCAAGTGTGGGCGATTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACTTCGAGCAGCCA
 TTGATCCGTATGTGCAAGAGAAGATTGTCTAGCAGCTCAGGCAATTTACGCTTTGCTTACCAGAAGAT
 CAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATCTTCAGGAGGCTTGG
 ACAGAGGGCCGGCGGTTTCGGGTGGTGTGGTGGACAGCCGCCATGGCTGGAAGGAAGGCACACACTAC
 GTTCTAGTCCATGCTGGTGTCCAGCCTCTACCTGCTGATTCTGCAGCCTCCTATGTGCTCCGAGA
 GGTTTCCAAGGTGCTATTGGGAGCTCATGCACTCTTGGCCAACGGGTCTGTGATGTCACGGTAGGGACA
 GCACAGTTAGCCCTGGTGGCTCGAGCCATAATGTACCAGTGTGGTTTGTGTGAAACATAAAGTTCT
 GTGAGCGTGTGCAGACTGATGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTGCAATGTAAGCG
 GGGAGAACATGTTGCGTGGCTAACTGGCAGAACCACGCATCCCTACGGTTGTTGAATCTAGTCTATGAT
 GTGACTCCCCAGAGCTTGTGGATCTGGTGTACGAGCTGGGGATGATCCCTTGCAGTCTGTACCTG
 TTGTTCTACGAGTCAAGAGCAGTGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210634 representing NM_001034116
 Red=Cloning site Green=Tags(s)

MAAVAVAVREDSGSMKAELEPPGPGAVGREMTKEEKLQLRKEKKQKKRKEEKGAEPETGSAVSAAQCQ
 VGPTRELPESGIQLGTPREKVPAGRSKAELEAERRAKQEAERALKQARKGEQGGPPPASPSTAGETPSG
 VKRLPEYPQVDDLLLRLVKKPERQVPTRKDYGSKVSLFSLPQYSRQNSLTQFMSIPSSVIHPAMVRL
 GLQYSQGLVSGSNARCIALLRALQQVIQDYTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNKIFL
 NKEITSVGSSKREEEAKSELRAAIDRYVQEKIVLAAQAISRFAYQKISNGDVILVYGCSLVSRIHQEAW
 TEGRRFRVVDVSRPWLEGRHTRSLVHAGVPASYLLIPAASYVLPVSKVLLGAHALLANGSVMSRVGT
 AQLALVARAHNPVLCVCCETKFCERVQTDVFNELDDPDDLQCKRGEHVALANWQNHASLRLLNLVYD
 VTPPELVDLVITELGMIPCSSVPVLRVKSSDQ

TRTRPLE - GFP Tag - V

Restriction Sites:

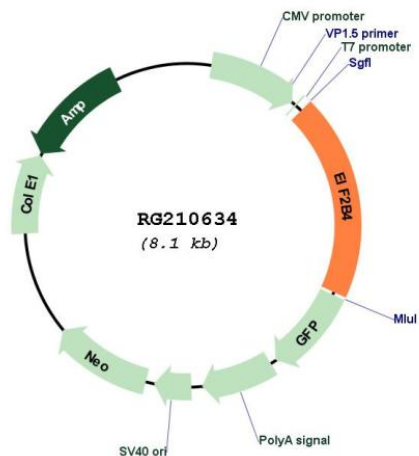
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001034116
ORF Size:	1569 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:	<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:	NM_001034116.2
RefSeq Size:	1763 bp
RefSeq ORF:	1572 bp
Locus ID:	8890
UniProt ID:	Q9UI10
Cytogenetics:	2p23.3
Gene Summary:	Eukaryotic initiation factor 2B (EIF2B), which is necessary for protein synthesis, is a GTP exchange factor composed of five different subunits. The protein encoded by this gene is the fourth, or delta, subunit. Defects in this gene are a cause of leukoencephalopathy with vanishing white matter (VWM) and ovarioleukodystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]