

Product datasheet for **RG210766**

EIF2B1 (NM_001414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B1 (NM_001414) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF2B1
Synonyms:	EIF2B; EIF2BA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210766 representing NM_001414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACAAGGAGTTAATTGAATACTTTAAGTCTCAGATGAAAGAAGATCCTGACATGGCCTCAGCAG
TGGCTGCCATCCGGACGTTGCTGGAGTTCTTGAAGAGAGATAAAGGGGAGACAATCCAGGGTCTGAGGGC
GAATCTCACCAGTGCCATAGAAACCTGTGTGGTGTGGACTCCTCTGTGGCAGTGTCTCTGGCGGGGAG
CTCTTCTCCGCTTCATCAGTCTTGCCCTCCCTGGAATACTCCGATTACTCCAAATGAAAAAGATCATGA
TTGAGCGGGGAGAACTTTTTCTCAGGAGAATATCACTGTCAAGAAACAAAATTGCAGATCTGTGCCATAC
TTTCATCAAAGATGGAGCGACAATATTGACTCACGCCTACTCCAGAGTGGTCTGAGAGTCTGGAAGCA
GCCGTGGCGGCCAAGAAGCGATTTAGTGTATACGTACAGAGTACAGCCTGATTTGTCAGGTAAGAAAA
TGGCAAAGCCCTCTGCCACCTCAACGTCCCTGTCACTGTGGTGTAGATGCTGTGCTGCGCTACATCAT
GGAGAAAGCAGATCTTGTATAGTTGGTGTGAAGGAGTTGTTGAAAACGGAGGAATTTAACAAGATT
GGAACCAACCAGATGGCTGTGTGTGCCAAAGCACAGACAAACCTTTCTATGTGGTTGCAGAAAGTTTCA
AGTTTGTCCGGCTCTTTCCACTAAACCAGCAAGACGTCCAGATAAGTTTAAGTATAAGGCAGACACTCT
CAAGGTCGCGCAGACTGGACAAGACCTCAAAGAGGAGCATCCGTGGTTCGACTACACTGCCCTTCTCTTA
ATCACTGTCTGTTTACAGACCTGGCGGTGCTGACACCCTCAGCAGTCAGCGATGAGCTCATCAAGCTCT
ATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210766 representing NM_001414
Red=Cloning site Green=Tags(s)

MDDKELIEYFKSQMKEDPDMSAVAAIRTLLLEFLKRDKGETIQGLRANL TSAIETLCGVDDSSVAVSSGGE
 LFLRFISLASLEYSYDYSKCKKIMIERGELFLRRIISL SRNKIADLCHTFIKDGATILTHAYSRVVLRVLEA
 AVAAKKRF SVYVTESQPDLSGKKMAKALCHLNVPVTVVLDAAVGYIMEKADLVI VGAEGVVENGGIINKI
 GTNQMAVCAKAQNKPFYVVAESFKFVRLFPLNQDVPDKFKYKADTLKVAQTGQDLKEEHPWVDY TAPSL
 ITLLFTDLGVLTPSAVSELIKLYL

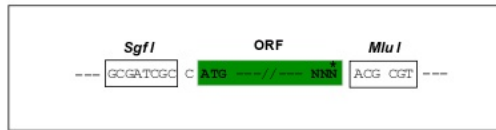
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2287_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001414

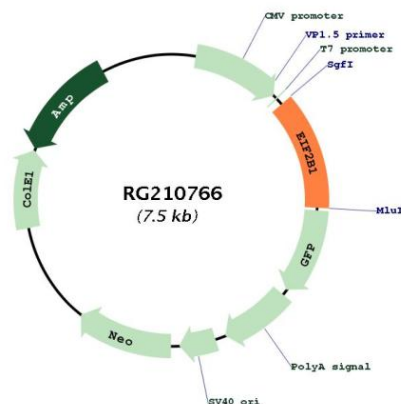
ORF Size: 915 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001414.4
RefSeq Size:	1794 bp
RefSeq ORF:	918 bp
Locus ID:	1967
UniProt ID:	Q14232
Cytogenetics:	12q24.31
Domains:	IF-2B
Gene Summary:	This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG210766