

EIF2B1 cDNA

Catalog Number: ATGD0262

PRODUCT INFORMATION

Catalog number

ATGD0262

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001405.1

Alternative Names

EIF2B, EIF2BA

mRNA Refseq

NM_001414.3

OMIM

606686

Chromosome location

12q24.31

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

918bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

EIF2B1 cDNA

Catalog Number: ATGD0262

EIF2B1 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.

DATA

Sequence nucleotides

```
ATGGACGACAAGGAGTTAATTGAATACTTTAAGTCTCAGATGAAAGAAGATCCTGACATGGCCTCAGCAGTGGCTGCCATCC
GGACGTTGCTGGAGTTCCTTGAAGAGAGATAAAGGGGAGACAATCCAGGGTCTGAGGGCGAATCTCACCAGTGCCATAGAA
ACCCTGTGTGGTGTGGACTCCTCTGTGGCAGTGTCTCTGGCGGGGAGCTCTTCCTCCGCTTCATCAGTCTTGCCTCCCTGG
AATACTCCGATTACTCCAAATGTAAAAAGATCATGATTGAGCGGGGAGAACTTTTTCTCAGGAGAATATCACTGTCAAGAAA
CAAAATTGCAGATCTGTGCCATACTTTTCATCAAAGATGGAGCGACAATATTGACTCACGCCTACTCCAGAGTGGTCCTGAGA
GTCCTGGAAGCAGCCGTGGCGGCCAAGAAGCGATTTAGTGTATACGTACAGAGTCACAGCCTGATTTGTCAGGTAAGAAA
ATGGCCAAAGCCCTCTGCCACCTCAACGTCCCTGTCACTGTGGTGCTAGATGCTGCTGTCGGCTACATCATGGAGAAAGCA
GATCTTGTATAGTTGGTGCTGAAGGAGTTGTTGAAAACGGAGGAATTATTAACAAGATTGGAACCAACCAGATGGCTGTGT
GTGCCAAAGCACAGAACAAACCTTTCTATGTGGTTGCAGAAAGTTTCAAGTTTGTCCGGCTCTTTCCACTAAACCAGCAAGA
CGTCCCAGATAAGTTTAAAGTATAAGGCAGACACTCTCAAGGTCGCGCAGACTGGACAAGACCTCAAAGAGGAGCATCCGTG
GGTCGACTACACTGCCCTTCTTAATCACTCTGCTGTTTACAGACCTGGGCGTGCTGACACCCTCAGCAGTCAGCGATGAG
CTCATCAAGCTCTATCTGTAA
```

Transaction Sequence

```
MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKE TIQGLRANLT SAIETLCGVDSSVAVSSGGE LFLRFISLAS
LEYSYDYSKCK KIMIERGELF LRRISLSRNK IADLCHTFIKDGATILTHAY SRVVLRLVLEA AVAAKKRFSV YVTESQPDLS
GKKMAKALCH LNPVTVVLDAAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK AQNKPFYVVA
ESKFVRLFPLNQDVPDKF KYKADTLKVA QTGQDLKEEH PWVDYTAPSL ITLLFTDLGV LTPSAVSDELKLYL
```