

Product datasheet for **RC230030**

EIF2B3 (NM_001166588) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	EIF2B3
Synonyms:	EIF-2B; EIF2Bgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC230030 representing NM_001166588
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAATTTCAAGCAGTAGTGATGGCAGTAGGTGGAGGATCTCGGATGACAGACCTAACTTCCAGCATT
CCAAACCTCTGCTTCCAGTTGGGAACAACTTTAATTTGGTACCCATTGAACCTGCTTGAGCGTGTGG
ATTTGAAGAAGTCATTGTGGTTACAACAGGGATGTTCAAAGGCTCTATGTGCAGAATTCAAGATGAAA
ATGAAGCCAGATATTGTGTGATTCTGATGACGCTGACATGGGAAGCTGAGATTCTTTGCGCTACATAT
ATCCAAAACCTTAAGACAGATGTGCTGGTGTGAGCTGTGATCTGATAACAGACGTTGCCTTACATGAGGT
TGTGGACCTGTTTAGAGCTTATGATGCATCACTTGCTATGTTGATGAGAAAAGGCCAAGATAGCATAGAA
CCTGTTCCTGGTCAAAAGGGGAAAAAAGCAGTGGAGCAGCGTGAATTCATTGGAGTGGACAGCACAG
GAAAGAGGCTGCTCTTCATGGCTAATGAAGCAGACTTGGATGAAGAGCTGGTCATTAAAGGGATCCATCCT
ACAGAAGCATCCTAGAATACGTTTCCACACGGGTCTTGTGGATGCCACCTCTACTGTTGAAAAATAC
ATCGTGGATTTCTAATGGAATGGGTCAATAACTTCTATCCGGAGTGAAGTATTCCATATTTAGTGA
GAAAACAGTTTTCTCAGCTTCTCACAACAGGGACAAGAAGAAAAGAGGAGGATCTAAAGAAAAGGA
GCTGAAGTCTTAGATATCTACAGTTTATAAAGAAGCCAATACACTGAACCTGGCTCCCTATGATGCC
TGCTGGAATGCCTGTGAGGAGACAGGTGGGAAGACTTGTCCAGATCACAGGTGCGCTGCTATGTCCACA
TCATGAAAGAGGGGCTCTGCTCTCGAGTGAACACTGGGACTCTACATGGAAGCAAACAGACAGGTGCC
CAAATTGCTGTCTGCTCTGTCCAGAAGAACCACAGTCCATTGCTCAGCCAGATTGTCAGCAAAAC
CTGTTGGAGTTGACAGCCTCATTGGGCCAGAGACAGATTGGAGAGAAGTCATCCATTAAAGCGCTCAG
TCATTGGCTCATCCTGTCTCATAAAGATAGAGTGACTATTACCAATTGCCTTCTCATGAAGTCACTCAC
TGTGGAGGAAGGTATGTTTCCCCCTGTACCCACTTGAGGCAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC230030 representing NM_001166588
Red=Cloning site Green=Tags(s)

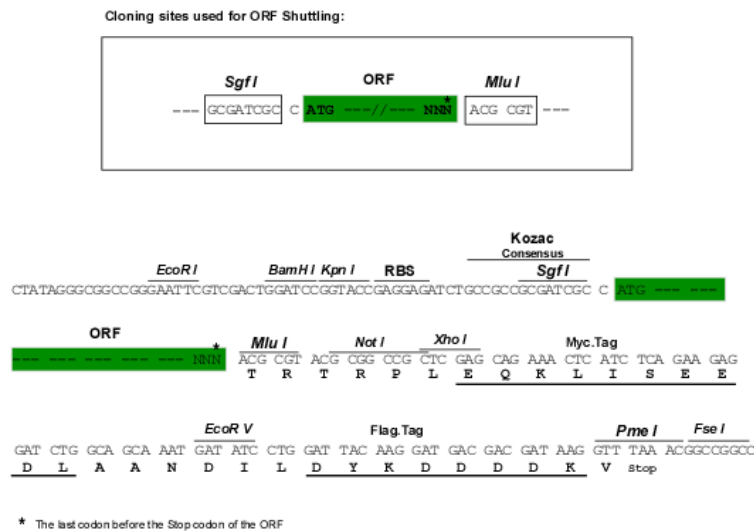
MEFQAVVMVAGGSRMTDLTSSIPKPLLPGNKPLIWYPLNLLERVGFEEVIVVTTTRDVQKALCAEFKMK
MKPDIVCIPDDADMGADSLRYIYPKLKTDVLVLSCLITDVALHEVVDLFRAYDASLAMLMRKGQDSIE
PVPQGKGKKKAVEQRDFIGVDSTGKRLLFMANEADLDEELVIKGSILQKHPRIHFHTGLVDAHLYCLKKY
IVDFLMENGSIITSIRSELIPYLVRKQFSSASSQQGQEEKEEDLKKKELKSLDIYSFKEANTLNLAPYDA
CWNACRGDRWEDLSRSQVRCYVHIMKEGLCSRVTGLGLYMEANRQVPKLLSALCPPEPPVHSSAQIVSKH
LVGVDSLIGPETQIGEKSSIKRSVIGSSCLIKDRVTITNCLLMNSVTVEEGYVSPCTHLRQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166588

ORF Size: 1236 bp

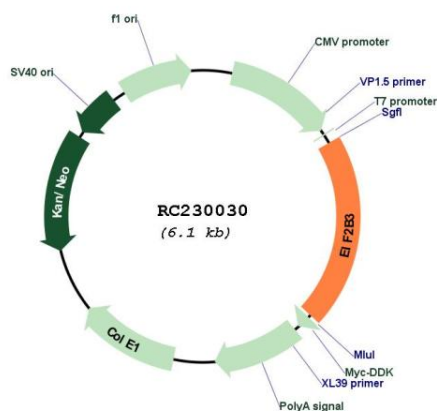
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

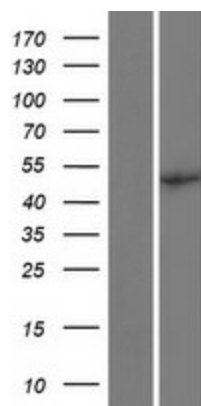
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001166588.2</u> , <u>NP_001160060.1</u>
RefSeq ORF:	1239 bp
Locus ID:	8891
UniProt ID:	<u>Q9NR50</u>
Cytogenetics:	1p34.1
MW:	46.6 kDa
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 RC230030



Western blot validation of overexpression lysate (Cat# [LY433030]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230030 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).