

Product datasheet for **RG207429**

EIF5B (NM_015904) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5B (NM_015904) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF5B
Synonyms:	IF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207429 representing NM_015904 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGGAAGAAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTGGCTG
CAGAAATAGAAGGAGCTGGTGTGCCAAAGAACAGGAGCCTCAAAGTCAAAGGGAAAAAGAAAAAGA
GAAAAAAGCAGGACTTTGATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAA
GGCATCAAAGCTGACAGAGAAACTGTTGCACTGAAGCCAAACAGAAAAACAATGAAGAGGAATTCACCTCAA
AAGATAAAAAAAGAAAGGACAGAAGGGCAAAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGA
AGATAAAGATTCAAATCAAAGAACTGCAAAACCGAAAGTGGAAATGTACTCTGGGAGTGATGATGAT
GATGATTTTAACAACTTCTAAAAAGCTAAAGGAAAGCTCAAATCAAATAAAGAGTGGGATGGGT
CAGAGGAGGATGAGGATAACAGTAAAAAATTAAGAGCGTTCAAGAATAAATCTTCTGGTGAAGTGG
TGATGAATCAGATGAATTTTGCATCTAGAAAAGGACAGAAAAAATCAGAAAAACAAGCCAGGTCTCT
AACATAGAAAGTGGGAATGAAGATGATGACGCCTCTTCAAATTAAGACAGTGGCCAAAAAGAGGCGAG
AAAAGAAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAACTGCGGAAGCTGAAAGAAAAAGA
AGAGTTAGAAACAGGTAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAAGAACT
GTAAATCAAAGTGACTGTTGACTGGAGTAATTCCTGCCTGAAGAGAAAGCAGAGACTCCCACAG
CTGCAGAAAGTACAATGAAGGAGACAAAAAGAAAGATAAGAAAGAAAAAGAAAGGAGAAAAAGGAAGA
AAAAGAGAAAGAGAAGAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAG
CTTAAAGAGGAAGAAGAAAGACAGAAGAGAGAAGGAAGAACGTATAAACGGCTTGAAGAATTAGAAG
CCAAGCGTAAAGAAGAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAG
AAAAGAACGCTTAAAAAGAAAGGAACTTTTAACTAAATCCCAGAGAGAAGCCAGAGCCAGAGCCGAA
GCTACTCTTAACTGCTACAAGCTCAGGGTGTGAAGTGCATCAAAGACTCTTTGCCAAAGAAGAGGC
CAATTTATGAAGATAAAAGAGGAAAAAATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAAT
GGAATTATGTGCTGCTGTAGAAGTTATGGAACAAGGAGTACCAGAAAAGGAAGAGACACCACCTCTGTT



[View online »](#)

GAACCAGAAGAAGAAGATACTGAGGATGCTGGATTGGATGATTGGGAAGCTATGGCCAGTGATGAGG
AGACAGAAAAAGTAGAAGGAAACACAGTTCATATAGAAGTAAAAGAAAACCCTGAAGAGGAGGAGGAGGA
GGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAGGAGGGAGAAAGTGAAGGCAGT
GAAGGTGATGAGGAAGATGAAAAGGTGTGAGATGAGAAGGATTCAGGGAAGACATTAGATAAAAAGCCAA
GTAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAGAAGAAAGGGCTTATGA
CAAAGCAAAACGGAGGATTGAGAAACGGCGACTGAAACATAGTAAAAATGTAACACCCGAAAAGCTAAGA
GCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATCTAGATAAGCTCCGTCACA
CACATGTACAAGACGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCCACCAATGTTCCCTCTGAAGC
TATTAATGAACAGACTAAGATGATTAATAATTTTATAGAGAGAATGTACGGATTCCAGGAATGCTAATT
ATTGATACTCCTGGGCATGAATCTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCA
TTTTAGTTGTTGATATTATGCATGGTTTGGAGCCCGACAATTGAGTCTATCAACCTTCTCAAATCTAA
AAAATGTCCTTCATTGTTGCACTCAATAAGATTGATAGGTTATATGATTGAAAAAGAGTCTGACTCT
GATGTGGCTGCTACTTTAAGAAGCAGAAAAAGAATACAAAAGATGAATTTGAGGAGCGAGCAAAGGCTA
TTATTGTAGAATTTGCACAGCAGGGTTTGAATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGCACTTT
TGTGCTTTGGTACCTACCTCTGCACATACTGGTATGGCATGGGAAGTCTGATCTACCTCTTGTAGAG
TTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGTGAAGAGCTGAGAGCACAGGTGATGGAGGTTA
AAGCTCTCCCGGGGATGGCACCCTATAGATGTCATCTTGATCAATGGCGCTTTGAAGGAAGGAGATAC
AATCATTGTTCCCTGGAGTAGAAGGGCCATTGTAACCTCAGATTCGAGGCCTCCTGTTACCTCCTCTATG
AAGGAATTACGAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCTCAGGGGGTAAAGATTC
TTGGAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTTGTGGCTTATAAAGAAGATGAAATCCC
TGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAAAAAGGA
GTCTATGTCCAGGCATCTACACTGGGTTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAGTGC
CCTATGCAGGAATTAACATTGGCCAGTGCATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACA
TGACCCTCAGTATGCAGTAAATTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGAT
AGTTTAGGAGTTAGAATTTTAGTGCAGAAATTTTATCATTATTTGATGCCTTTACAAAATATAGAC
AAGACTACAAGAAACAGAAACAAGAAGAAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAATCCT
CCCTCAGTACATTTTAAATTCGAGATCCGATAGTGTGGGGGTGACGGTGAAGCAGGTGAGGTGAAA
CAGGGGACACCCATGTGTGTCCAAGCAAAAATTTTGTGACATCGGAATAGTAACAAGTATTGAAATAA
ACCATAAACAAGTGGATGTTGCAAAAAAGGACAAGAAGTTTGTGTAATAAAGAACCTATCCCTGGTGA
GTCACCCAAAATGTTTGAAGACATTTTGAAGCTACAGATATTCTTGTAGTAAGATCAGCCGGCAGTCC
ATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAGAAGAGTGACTGGCAGCTTATTGTGGAGCTGA
AGAAAGTATTTGAAATCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

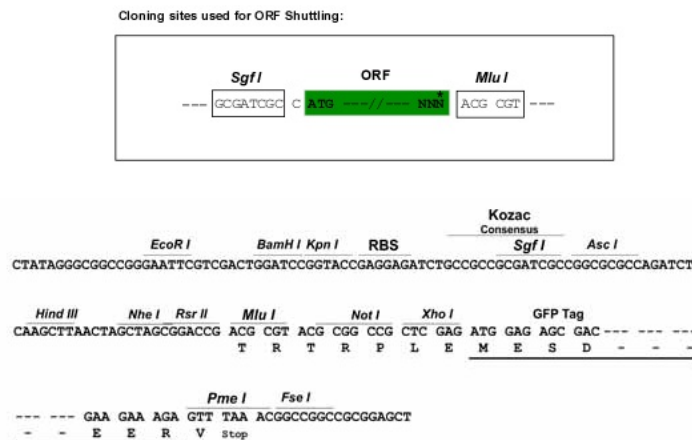
Protein Sequence: >RG207429 representing NM_015904
 Red=Cloning site Green=Tags(s)

MGKKQKNKSEDSTKDDIDLALAAEIEGAGAAKEQEPQKSKGKKKKKKQDFDEDDILKELEELSLEAQ
 GIKADRETVAVKPTENNEEEFTSKDKKKKGQKGGKQSFDDNDSELEDKDSKSKKTAKPKVEMYSGSDDD
 DDFNKLPKKAKGKAQKSNKKWDGSEEDDNSKKIKERSRINSSGEGSDEFLQSRKGGQKNQKNKPGP
 NIESGNEDDDASFKIKTVAQKKAIEKKERERKRDEEKAKLRKLKEKEELETGKKDQSKQKESQRKFEET
 VKSKVTVDTGVIPASEEKAETPTAAEDDNEGDKKKKDKKKKKEKEEKEKEKKGPSKATVKAMQEALAK
 LKEEEERQKREEEERIKRLEELEAKRKEEERLEQEKRRERKQKEKERKERLKKEGKLLTKSREARARAE
 ATLKLLQAQGVVPSKDSLPPKRPYEDDKRKKIPQQLSKEVSESMELCAAVEVMEQGVPEKEETPPP
 EPEEEEDTEDAGLDDWEAMASDEETEKVEGNTVHIEVKENPEEEEEEEEEEEDEESEEEEEEGESEG
 EGDEEDEKVSDEKSGKTLDKKPSKEMSSDSEYSDDDRTKEERAYDKAKRRIEKRRLEHKNVNTKLR
 APIICVLGHVDTGKTKILDCLRHTHVQDGEAGGITQQIGATNVPLEAINEQTKMIKNFDRENVRI
 IDTPGHESFNLNRGSSLCDIAILVVDIMHGLEPQTIESINLLSKKCPFIVALNKIDRLYDWKSPDS
 DVAATLKKQKNTKDEFEEERAKAIIIVEFAQQGLNAALFYENKDPRTFVSLVPTSAHTGDGMGSLIYLLVE
 LTQTMLSKRLAHCEELRAQVMEVKALPGMGTIDVILINGRLKEGDTIIVPGVEGPVITQIRGLLLPPP
 KELRVKNQYEKHKEVEAAQGVKILGKDLEKTLAQLLVAEKEDIPVLKDELIHELKQTLNAIKLEEK
 VYVQASTLGSLEALLEFLKTSEVPYAGINIGPVHKKDVMKASVMLEHDPQYAVNLAFDVRIERDAQEMAD
 SLGVRIFSAEIIYHLDFAFTKYRQDYKKQKQEEFKHIAVFPCKIKILPQYIFNSRDPVIMGMTVEAGQVK
 QGTPMCPVSKNFVDIGIVTSIEINHKQVDVAKKGQEVCKIEIPGSPKMFGRHFEATDILVSKISRQS
 IDALKDWFRDEMOKSDWQLIVELKKVFEII

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

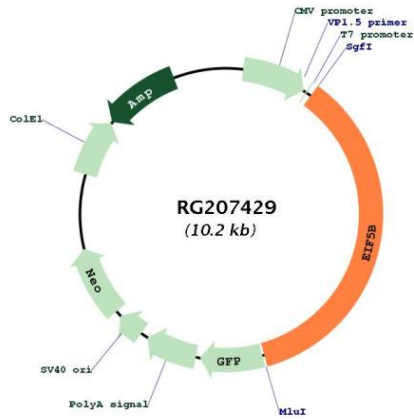


ACCN: NM_015904

ORF Size: 3660 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015904.3 , NP_056988.3
RefSeq Size:	4698 bp
RefSeq ORF:	3663 bp
Locus ID:	9669
UniProt ID:	O60841
Cytogenetics:	2q11.2
Gene Summary:	Accurate initiation of translation in eukaryotes is complex and requires many factors, some of which are composed of multiple subunits. The process is simpler in prokaryotes which have only three initiation factors (IF1, IF2, IF3). Two of these factors are conserved in eukaryotes: the homolog of IF1 is eIF1A and the homolog of IF2 is eIF5B. This gene encodes eIF5B. Factors eIF1A and eIF5B interact on the ribosome along with other initiation factors and GTP to position the initiation methionine tRNA on the start codon of the mRNA so that translation initiates accurately. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207429