

## Product datasheet for **RG203830**

### EIF3D (NM\_003753) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3D (NM_003753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF3D
Synonyms:	eIF3-p66; eIF3-zeta; EIF3S7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203830 representing NM\_003753  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAAGTTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCCGAGC  
 AGTTTCGGGATATGCCCTACCAGCCGTTACGAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGG  
 AGCCACATACCAAGATAAGAGGTACACAATAAGTACTCCTCAGTTTGGTGGTGAAGTCAATATGCT  
 TATTTCCATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCTACC  
 AGCGGAATCGAATGAGATTTGCCAGAGGAACCTCCGAGAGACAAGATCGTCGGAACATGTTGCAGTT  
 CAACCTGCAGATCTGCCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTGACTGCAGAAAAAGTTC  
 CAGAAACAATTTGGGGTTAGGCAGAAATGGGATCAGAAATCACAGAAACCCCGAGACTCTCAGTTGAAG  
 TTCGTAGTGATTGGGAAGTGAAGAGGAAATGGATTTTCCTCAGTTGATGAAGATGCGCTACTTGGAAAT  
 ATCAGAGCCACAGGACATTGAGTGTGGGGCCCTAGAATACTACGACAAGCCTTTGACCGCATCACC  
 ACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGCATCTCCACACTGTACCACCACAGACGACCCTG  
 TCATCCGCAAGCTGGCAAAAACCTCAGGGGAATGTGTTGCCACTGATGCCATCCTGGCCACGCTGATGAG  
 CTGTACCCGCTCAGTGTATTCTGGGATATTGTCGTCCAGAGAGTTGGGTCCAAACTCTTCTTTGACAAG  
 AGAGACAACCTGACTTTGACCTCTGACAGTGAGTGAGACTGCCAATGAGCCCCCTCAAGATGAAGGTA  
 ATTCCTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAATTTCTCCAGCAGTG  
 CTTGAGAATGGGAAGGAAAGATACAACCTCCCAACCCAAACCCGTTTGGGAGGACGACATGGATAAG  
 AATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATTGTC  
 GTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAAGTGCCTTCATCAACATCAAGACTCAA  
 TGAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTC  
 ATTGCCACGAGCTGAAGAACAACAGCTACAAGTTGGCCCGTGGACCTGCTGTGCTTTGCTGGCTGGAT  
 CTGAGTACCTCAAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTATCCTAGG  
 CACCCAGCAGTTCAAGCCTAATGAGTTTCCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATT  
 TTACGCTGCGTCATTGACATCTGCATGAAGCTGGAGGAGGGCAAATACCTCATCTCAAGGACCCCAACA  
 AGCAGGTCATCCGTGCTACAGCCTCCCTGATGGCACCTCAGCTCTGATGAAGATGAGGAGGAAGAGGA  
 GGAGGAAGAAGAGGAAGAAGAAGAGGAAGAAACT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203830 representing NM\_003753  
 Red=Cloning site Green=Tags(s)

MAKFMTPVIQDNPSGWGPCAVPEQFRDMPYQPF SKGDR LGKVADWTGATYQDKRYTNKYSSQF GGGG SQYA  
 YFHEE DESS FQLVDTARTQKTAYQRNRMFAQRNLRRDKDRRNMLQFNLQILPKSAKQKERERIRLQKFK  
 QKQFGVRQKWDQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPDIECCGALEYDYDKAFDRIT  
 TRSEKPLRSIKRIFHTVTTDDPVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQVRVGSKLFDDK  
 RDNSDFDLLTVSETANEPQDEGNSFNSPRNLA MEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDK  
 NEIASVAYRYRRWKLGDIDLIVRCEHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLD SQRGAV  
 IATELKNN SYKLARWTCCALLAGSEYKLGYVSRVYHVKDSRHHVILGTQQFKPNEFASQINL SVENAWGI  
 LRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDGTFSSDEDEEEEEEEEEEEEEET

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_003753

**ORF Size:** 1644 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.

**RefSeq:** [NM\\_003753.4](#)

**RefSeq Size:** 1949 bp

**RefSeq ORF:** 1647 bp

**Locus ID:** 8664

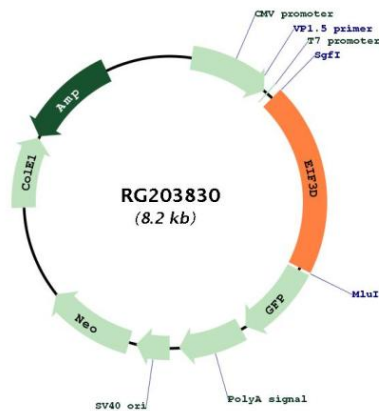
**UniProt ID:** [O15371](#)

**Cytogenetics:** 22q12.3

**Domains:** eIF-3\_zeta

**Gene Summary:** Eukaryotic translation initiation factor-3 (eIF3), the largest of the eIFs, is a multiprotein complex composed of at least ten nonidentical subunits. The complex binds to the 40S ribosome and helps maintain the 40S and 60S ribosomal subunits in a dissociated state. It is also thought to play a role in the formation of the 40S initiation complex by interacting with the ternary complex of eIF2/GTP/methionyl-tRNA, and by promoting mRNA binding. The protein encoded by this gene is the major RNA binding subunit of the eIF3 complex. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG203830