

Product datasheet for **RG234329**

IF3EI (EIF3L) (NM_001242923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IF3EI (EIF3L) (NM_001242923) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IF3EI
Synonyms:	EIF3EIP; EIF3S6IP; EIF3S11; HSPC021; HSPC025; MSTP005
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234329 representing NM_001242923
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTTATCCCGCTGATGATTATGAGTCTGAGCGGCTTATGACCCCTACGCTTATCCAGCGACTATG
 ATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAGTATGAACAGCAAACCTATCAGGT
 GATCCCTGAGGTGATCAAAACTTCATCCAGTATTTCCACAAACTGTCTCAGATTTGATTGACCGAGAA
 GTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTATGTCATTGACCAGAAGGTGTATGAGATCCAGGACA
 TCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGCCCCGAGGCTGAAGC
 CATTGCTCCACAGGTTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAATTACTACAGGCACATA
 TATGCCAAAGTCAGTTTTAGTCATTAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGA
 TTGACTTTCTTCTTCAATCCCAAACTCTGGAATGTTTCATAGTGTCTCAATGTCCTTCATTCCCTGGT
 AGACAAATCCAACATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCTGAGAGTGTGGCTGGG
 GAGTATGGGCGGCACTCCCTCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCTGCACT
 CCCTGTTAGGAGATTACTACCAGGCCATCAAGGTGCTGGAGAATCGAAGTGAACAAGAAGAGTATGTA
 TTCCCGTGTGCCAGAGTGCCAGGTCAACACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGT
 TACCAGGATGCCATCCGGGTCTTCGCCAACATCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGA
 GGACACGTACAAGTATGAGATGATTAAACAGCAGAATGAGCAGATGCATGCGCTGCTGGCCATTGCCCT
 CACGATGTACCCCATGCGTATTGATGAGAGCATTACCTCCAGCTGCGGGAGAAATATGGGACAAAGATG
 TTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGTTACTCCTGCCCAAGTTCTGT
 CGCCTGTAGTGCCCACTATGATAATGTGCACCCCACTACCACAAAGAGCCCTTCTGCAGCAGCTGAA
 GGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTTTCAACCATCCGCAGCTTCTGAAAGCTCTACACC
 ACCATGCCTGTGGCCAAGCTGGCTGGCTTCTGACCTCACAGAGCAGGAGTTCCGGATCCAGCTTCTTG
 TCTTAAACACAAGATGAAGAACCTCGTGTGGACAGCGGTATCTCAGCCCTGGATGGTGAATTTAGTC
 AGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGT
 TATGGGGATTTCTTCATCCGTCAGATCCACAAATTTAGGAGCTTAATCGAACCTGAAGAAGATGGGAC
 AGAGACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234329 representing NM_001242923
 Red=Cloning site Green=Tags(s)

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVIPEVIKNFIQYFHKTVSDLIDQK
 VVELQASRVSSDVIDQVYEQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDAVFLILYKELYRHI
 YAKVSFQSFQYRCKTAKKSEEEIDFLRSNPKIWNVHSLNVLHSLVDKSNINRQLEVYTSGGDPESVAG
 EYGRHSLYKMLGYFSLVGLRLHSLLDYQAIKVLNIELNKKSMYSRVPECQVTTYVYVGFAYLMMRR
 YQDAIRVFANILLYIQRKSMFQRTTYKYEMINKQNEQMHALLAIALTMYPMRIDESIHLQLREKYGDKM
 LRMQKGDPPVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVSDEVQQQAQLSTIRSLKLYT
 TMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDKDMIHIADTKVARR
 YGDFFIHQIHKFEELNRTLKMGQRP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001242923

ORF Size: 1548 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_001242923.2](#)

RefSeq Size: 1947 bp

RefSeq ORF: 1551 bp

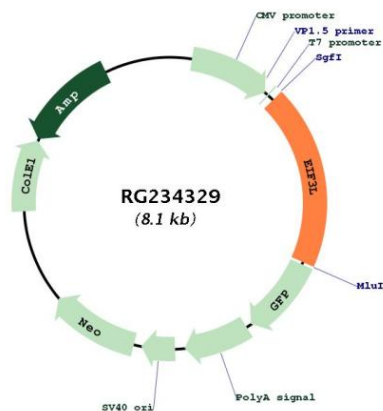
Locus ID: 51386

UniProt ID: [Q9Y262](#)

Cytogenetics: 22q13.1

Gene Summary:

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG234329