

Product datasheet for SC331928

IF3EI (EIF3L) (NM_001242923) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IF3EI (EIF3L) (NM_001242923) Human Untagged Clone
Tag: Tag Free
Symbol: IF3EI
Synonyms: EIF3EIP; EIF3S6IP; EIF3S11; HSPC021; HSPC025; MSTP005
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331928 representing NM_001242923.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTATGACCCCTACGCTTATCCAGCGACTAT
GATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAGTATGAACAGCAAACCTATCAG
GTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGTCTCAGATTTGATTGACCAG
AAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTATGAGATCCAG
GACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGCCCGAGGCT
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CACATATATGCCAAAGTCAGTTTTCAGTCATTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAG
GAGGAGATTGACTTTCTTCGTTCCAATCCCAAAATCTGGAATGTTTCATAGTGTCTCAATGTCCTTCAT
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CGCCTGCACTCCCTGTTAGGAGATTACTACCAGGCCATCAAGGTGCTGGAGAATCGAAGTGAACAAG
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TTCCTGAAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCTGGACCTCACAGAGCAGGAG
TTCCGGATCCAGCTTCTGTCTTCAAACACAAGATGAAGAACCTCGTGTGGACCAGCGGTATCTCAGCC
CTGGATGGTGAATTTAGTCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCG
GACACCAAGGTCGCCAGGCGTTATGGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAAT
CGAACCTGAAGAAGATGGGACAGAGACCTTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001242923
Insert Size: 1551 bp


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001242923.1</u>
RefSeq Size:	1947 bp
RefSeq ORF:	1551 bp
Locus ID:	51386
UniProt ID:	<u>Q9Y262</u>
Cytogenetics:	22q13.1
MW:	61 kDa
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-tRNAi 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] Transcript Variant: This variant (2) lacks two consecutive exons in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.