

Product datasheet for **RC201726**

EIF2D (NM_006893) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2D (NM_006893) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF2D
Synonyms:	HCA56; LGTN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC201726 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

 ATGTTTGCCAAGGCCTTTTCGGGTCAAGTCCAACACGGCCATCAAGGGGTGGACAGGAGAAAGCTTCGAG
CTGATGTGACAACTGCTTTCCCCACCCTTGGAAGTCAAGTCTCTGAGTTAGTACCTGGAAAGGAGGA
GCTCAACATTGTGAAGTTGTATGCTCACAAGGGGATGCAGTGACTGTGTACGTGAGTGGTGGTAACCCC
ATCCTCTTTGAAGTGGAGAAAACTGTATCCAACAGTGACACGCTGTGGTCTATCCTGATCTTCTGC
CAACCTTTACAACATGGCCTCTGGTCTCGAGAACTGGTAGGGGAGCAGATTTGATGCTGCCTGGACT
GGTGATGCCCCCTGCTGGTCTGCCTCAGGTACAGAAGGGCGACCTCTGTGCCATTTCTTTGGTGGGAAC
AGAGCCCTGTAGCCATTGGAGTTGCAGCCATGTCCACAGCTGAGATGCTCACGTGAGCCTGAAGGAA
GGGGCTTCTCTGTGCTCCACACTTACCAGGACCACTTGTGGCGGTCTGGAACAAGTCTCTCCACCTTC
CATTGCTCCACTGGCCCTGGATTGAGCAGATCTCAGTGAAGAGAAGGGGTCTGTCCAGATGGACTCCACC
CTGCAGGGAGACATGAGGCACATGACCCCTGGAGGGGAAGAGGAGAATGGGGAGGTTACCCAGGCAGGTG
AAGACAAGTCTCTCTCAGAAGCCCCAGAAGACACCAGCACCAGGGGCTGAACCAAGACTCCACAGATAG
CAAAACGCTTCAAGAACAAATGGATGAGCTGTTACAGCAATGCTTCTTACATGCCTTGAAGTGCCGAGTC
AAAAAGGTGACCTCCCTTTACTCACCAGCACTTCTTGGCAGCCACATGTTCTCTGCTGCCCGAAG
GACGACAACTGGACATAAAGAAGTCAAGCTACAAAAGCTCTCTAAGTTCCTGCAGCAATGCAGCAGGA
GCAGATTATACAGGTGAAGGAGCTGAGCAAGGGGTGGAGAGCATTGTGGCTGTGGACTGGAACACCCG
AGGATTACATCTTTCGTATACCCGAGCCCTCCCGACCTCCAGACTATCCAGGAGGGTAGCAGGGAAC
AGCCCTATCACCCTCCAGATATAAAACCCCTCTACTGTGTCCAGCCAGCATGACCTGCTCTTCCAGGA
GTCTGGCCACAAGAAGGGGAGCTTTCTGGAGGGCAGTGAGGTCCGAACGATCGTCAATTAACACGCCAAG
AAAAATGACCTGGTTGATGCAGACAACAAAATCTTGTGAGATTGGATCCCATCTATGTGACTGCATCT
TAGAGAAAAATGAACAGCATACAGTCATGAAGCTTCCATGGGACAGTCTTCTGACCAGGTGTTTGAAAA
ATTACAGCCTGCCTATCAAGTGACCTTCCCGACAAGAGCCCATTTGTGAAGAAAGGGAGAATCTGTCCA
ATTGACATCACCCTAGCACAAGAGCGTCTAATAAAAAGGTGACCGTGGTCCGGAAGTTGGAGGCCTATG
GTCTGGACCCATACTCAGTGGCTGCCATCCTTACGAGCGATGCCAGGCTAGCACCACCTCAATCTGC
CCCTGGGGCCAAGGACAGCCTTCAAGTGCAGATCCAGGAAACAGGTCCACCACCTCGGCTGGCTATTG
CTTGAAGAGTATCAGCTCCCTCGAAAACACATCCAAGGTCTAGAAAAGGCCCTCAACCTGGCAAGAAGA
AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201726 protein sequence

Red=Cloning site Green=Tags(s)

 MFAKAFRVKSNTAIKGSRRRLRADVTTAFPTLTGTDQVSELVPGKEELNIVKLYAHKGDAVTYYVSGGNP
ILFELEKNLYPTVYTLWSPDLLPTFTTWPLVLEKLVGGADLMLPGLVMPPAGLPQVQKGDLCALSLVGN
RAPVAIGVAAMSTAEMLTSLKGRGFSVLHTYQDHLWRSGNKSPPSIAPLALDSADLSEKGSVQMDST
LQGDMRHMTLEGEENGEVHQAREDKSLSEAPEDTSTRGLNQDSTDSTLQEQMDELLQQCFHLALKCRV
KKADLPLLTSTFLGSHMFSCCPEGRQLDIKKSSYKKLSKFLQMQQEIQVYKELSKGVESIVAVDWKHP
RITSFVIPEPSPTSQTIEGSRQPYHPPDIKPLYCVPASMTLLFQESGHKKGSFLEGSEVRTIVINYAK
KNDLVADNKNLVRDLDCILEKNEQHTVMKLPWDSLLTRCLEKLQPAYQVTLPGQEPVKKGRICP
IDITLAQRASNKKVTVVRNLEAYGLDPYSVAAILQQRCASTTVNPAPGAKDSLQVQIQGNQVHHLGWLL
LEEQQLPRKHIQGLEKALKPGKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:
https://cdn.origene.com/chromatograms/mk6323_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006893

ORF Size: 1752 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.

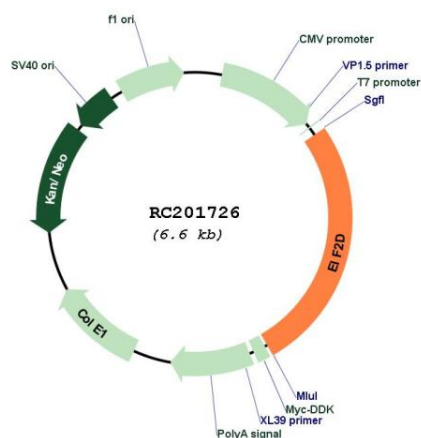
RefSeq: [NM_006893.3](#)

RefSeq Size: 2115 bp

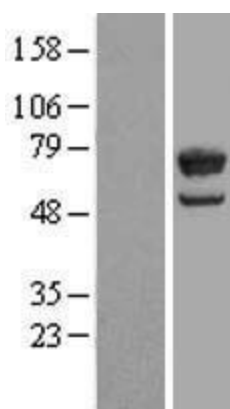
RefSeq ORF: 1755 bp

Locus ID:	1939
UniProt ID:	P41214
Cytogenetics:	1q32.1
Domains:	SUI1, PUA
Protein Families:	Druggable Genome
MW:	64.7 kDa
Gene Summary:	This gene encodes a translation initiation factor involved in the recruitment and delivery of aminoacyl-tRNAs to the P-site of the eukaryotic ribosome in a GTP-independent manner. This gene was previously referred to as ligatin, but is now known to localize to the cytoplasm and localize and function with translation factors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

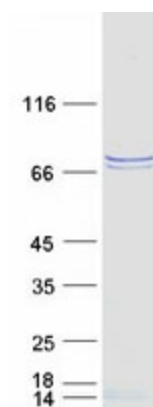
Product images:



Circular map for RC201726



Western blot validation of overexpression lysate (Cat# [LY416334]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201726 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF2D protein (Cat# [TP301726]). The protein was produced from HEK293T cells transfected with EIF2D cDNA clone (Cat# RC201726) using MegaTran 2.0 (Cat# [TT210002]).