

## Product datasheet for **MR211151**

### **Eif3c (NM\_146200) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Eif3c (NM_146200) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif3c
Synonyms:	110kDa; 3230401O13Rik; Eif3s8; NIPIL(A3); NipilA3; Xs; Xsl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211151 representing NM\_146200  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCGATTCTCACACCGGCTCGGACAGTGAGTCGGAGTCGTCCCTGTCCGGGGAGGAGCTCGTCA  
 CCAAACCGGTCTCCGGAACTACGGCAAACAGCCTTTGTTACTGAGCGAGGATGAGGAGGATACAAAGAG  
 AGTTGTCCGAAGCGCAAGGACAAGAGGTTTGGAGAGCTGACCAACCTCATAACGAACATCCGTAATGCC  
 ATGAAGATTCCGAGATGTACCAAGTGTCTAGAAGAGTTTGGAGCTCCTGGGAAAGGCTATGGGAAAGCCA  
 AGAGTATTGTGGATAAAGGAAGGTGTCCCGGATTCTACATCCGAATACTGGCTGACCTGGAGGACTATCT  
 TAATGAGCTTTGGGAAGATAAAGAAGGAAAGAAGAAGTGAATAAAAAACAACGCCAAGGCTCTGAGTACC  
 TTGCGCCAGAAGATCCGGAAATACAACCGAGATTTGAGTACACATACCAACTACAAGCAGAACCCTG  
 AGCAGTCTGCAGATGAAGATGCAGAAAAGAATGAGGAAGACTCCGAAGGCTTTTCCAGATGAGGATGAGGA  
 CGAGGACGGAGTCGGTAATACGACTTTCTGAAGAAGAAGCAAGAATCTTCTGGAGAGAGTCGGAAGTTC  
 CACAAAAAGATGGAAGATGATGATGAGGACTCTGAAGATTCTGAAGATGAAGAATGGGACACCAGCTCCA  
 CATCTTCTGATTGACTCTGAGGAAGAAGAAGGAAAAACAACCTGTTCTGGCCTCAAAGTTCCTTAAAAA  
 GGCACCCACTACAGAGGAGGACAAAAAGCAGCTGAAAAGAAACGGGAAGACAAAGCCAAGAAGAAGCAC  
 GATAGGAAGTCTAAGCGCCTGGATGAGGAAGAGGAGGACAATGAGGGCGGGGAGTGGGAACGGGTCCGAG  
 GTGGCGTACCCTTGTAAAGGAAAGCCAAAAATGTTTCCCAAGGGAAGTGAATCACTCATGCTGTTGT  
 CATCAAGAACTGAATGAGATTCTACAGTCTAGAGGCAAGAAGGGAACAGACCGTCCACTCAGATTGAA  
 TTGCTCCAGCTGCTGGTTCAGATTGCTGCTGAAAAACAACCTGGGGTGGGCGTCATTGTCAAGATCAAGT  
 TCAATCATTTGCCTCTCTCAGATTACAACCTAACCTGACCACGTACATGAAGCCAGAGATGTGGCA  
 GATGTGCCTAGACTGCATCAATGAAGTACGTTGATACGTTGGTTGCACATTCCAACATCTTTGTTGGAGAG  
 AACATTTTGAAGAGAGTGAGAAGTACACAACCTTTGATCAGCCACTGCGTGTACGAGGCTGCATCTTAA  
 CTTTGGTGGAGCGAATGGATGAAGAATTTACAAAATAATGCAAATACTGATCCTCACTCCCAAGAGTA  
 TGTGGAGCACCTGAAGGATGAGGCACAAGTGTGTGCCATCATTGAGCGAGTGCAGCGCTACCTGGAGGAG  
 AAAGGTACCCTGAGGAGATCTGCCAGATCTACTTAAGGCGCATCCTGCACACGTACTACAAGTTTACT  
 ACAAGGCCATCAGCGGCAGCTTACTCCTCCTGAAGGATCCTCAAAGTCTGAGCAAGACCAGGCAGAAAA  
 TGAGGGTGAAGACTCAGCTGTGTAATGGAAAGACTGTGCAAGTACATCTATGCCAAGACCGTACAGAC  
 CGGATCCGTACCTGTGCCATCCTGTCCATATCTACCATCATGCGCTCCACTCCCCTGGTATCAGGCC  
 GTGACCTCATGCTCATGAGCCACCTACAGGACAACATTACGACGACAGCCCGCCGGTGCAGATCCTGTA  
 TAACCGTACTATGGTGAACCTGGGCATCTGTGCTTTCCGCAAGGCTGACAAAGGATGCACACAATGCA  
 CTTCTGGATATTCAGTCAAGTGGTCTGTCGAAGGAGCTTCTAGGTGAGGCTGTGCTGCTGCGCAGCCTGC  
 AGGAGCGAAATCAGGAACAGGAAAGGTAGAGCGACGCCGGCAGGTGCCCTTTCACCTGCACATCAACCT  
 GGAGCTGCTGGAGTGTGTCTATCTGGTGTGAGTATGCTCCTGGAGATCCCCTACATGGCTGCCATGAG  
 AGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCACCACCAACTGCGGGTGGCGAGCGGCAGCCCC  
 TGCTAGGTCTCCCGAGTCAATGAGGGAGCATGTGGTCTGCTGCCAAGGCCATGAAGATGGGCGACTG  
 GAAGACCTGCCACAGTTTCATCATTAAATGAAAAGATGAATGGGAAAGTGTGGACCTTTTCCCTGAGGCT  
 GACAAAGTTCGCACCATGCTAGTTTCGGAAGATCCAGGAAGAGTCTCTGAGGACCTACCTTTTTACCTACA  
 GCAAGTGTCTATGACTCAATCAGTATGGAGACACTATCAGATATGTTTGGAGCTGGATCTACCCACTGTTCA  
 CTCCATCATCAGCAAGATGATCATTAAACGAAGAATTGATGGCTTCCCTGGACCAGCCGACACAGACTGTG  
 GTGATGCACCGTACTGAGCCACTGCCAGCAGAACTGGCTCTGCAGCTGGCTGAGAAGCTTGGCAGCC  
 TAGTGGAGAATAATGAACGGGTGTTTGACCATAAGCAGGGAACCTATGGTGGCTATTTCCGAGACCAAAA  
 GGATGGCTACCGAAAAAATGAAGCTATATGCGCCGTGGTGGCTACCGCCAGCAGCAGTCTCAGACAGCC  
 TAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Protein Sequence:** >MR211151 representing NM\_146200  
 Red=Cloning site Green=Tags(s)

MSRFFTTGSDSESSLGSEELVTKPVSGNYGKQPLLLSEDEEDTKRVVRSKDKRFEELTNLIRTI RNA  
 MKIRDVTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKMNKNAKALST  
 LRQKIRKYNRDFESHITNYKQNPESQSADEDAEKNEEDSEGSSDEDEDEDGNGNTTFLKKKQESSGESRKF  
 HKKMEDDDESDSEDEEWDTSSTSSDSEEEEEGKQTVLASKFLKAPTTTEEDKAAEKKREDKAKKKH  
 DRKSKRLDEEEEDNEGGEWERVRRGGVPLVKEKPKMFAKGTETHAVVIKLLNEILQVRGKKTDRATQIE  
 LLQLLVQIAAENNLGVGVIVKIKFNIIASLYDYNPNLATYMKPEMWMCLDCINELMDTLVAHSNIFVGE  
 NILEESENLHNFQPLRVRCILTLVERMDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEE  
 KGTTEEICQIYLRRILHTYYKFDYKAHQ RQLTPPEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTD  
 RIRTCAILCHIYHHLHSRWYQARDLMLMSHLQDNIQHADPPVQILYNRTMVQLGICAFRQGLTKDAHNA  
 LLDIQSSGRAKELLGQGLLLRSLQERNQEKEKVERRRQVPFHLHINLELLECVYLVSAMLLEIPYMAAHE  
 SDARRRMI SKQFHHQLRVGERQPLLGPPE SMREHVVAASKAMKMGDWKTCHSF IINEKMNGKVWDLFPEA  
 DKVRTMLVRKIQEESLRYLFTYSSVYDSISMETLSDMFELDLPTVHSIISKMIINEELMASLDQPTQTV  
 VMHRTEPTAQQLALQLAEKLGSLVENNERVFDHKQGT YGGYFRDQKDG YRKNEGYMRRGGYRQQSQTA  
 Y

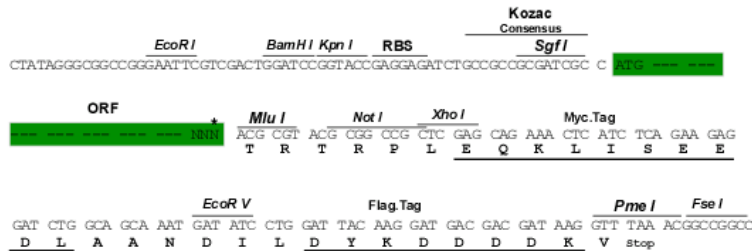
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9095\\_e11.zip](https://cdn.origene.com/chromatograms/mm9095_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



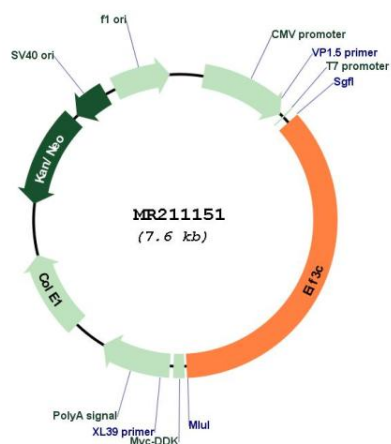
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146200

**ORF Size:** 2733 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_146200.1</a> , <a href="#">NP_666312.1</a>
<b>RefSeq Size:</b>	2896 bp
<b>RefSeq ORF:</b>	2736 bp
<b>Locus ID:</b>	56347
<b>UniProt ID:</b>	<a href="#">Q8R1B4</a>
<b>Cytogenetics:</b>	7 F3
<b>MW:</b>	105.5 kDa
<b>Gene Summary:</b>	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA <sup>i</sup> 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. 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211151