

## Product datasheet for **RR201442**

### Eif2a (NM\_001109339) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2a (NM_001109339) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR201442 representing NM\_001109339  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCCACACTTCACAGAGACACAGTGTCTCAAGAGAACCTGGAAAAATTGCAAAGTCTATAC  
 TTTTAGTAAGGATGGACATTGTTTGCCTGGAGCAATGGAGAAAAATTTGCCTTGAATTTTACCAAACAA  
 CACTGTCTGGCAACGTGGCAGCCTTACTACTTCTAAAGATGGTACAGCTGGGACCCCTAACCTACAA  
 CTTTATGACGTGAAGACTGGAACATGTTTAAAATCTTTCATACAGAAAAAATGCAGAATTGGTGTCTT  
 CCTGGTCAGATGAAATATTTGTGCCCGGAATGTTAAACAATGAAGTTCACCTCTTTGAGAACAACAA  
 TTTTAACACAATTGCAAATAAATACATTTGCAAAAAGTTAATGACTTTAATTTACCTGGAACCCAA  
 CCTTTTAAAGTTCGAGTTTATGTCCCTGGAAGTAAAGGTGCACCTTCATTTGTTAGATTATACAGTACC  
 CCAACTTTGCTGGACCCCAAGCCGCACTGGCCAATAAAAAGCTTCTTTAAAGCCGATAAGGTTACGATGCT  
 GTGGAATAAAAAAGCTACTGCTGTGCTGGTAATAGCCAGTACAGATGTTGACAAGACAGGCGCTTCTAC  
 TATGGGGAACAAACACTGCACTACATTGCGACAATGGAGAAAGTGTGTAGTACAATTACCCAAAATG  
 GCCAATTTATGATGTAGCTTGGAACTCCTAGTTCTACGGAGTTTTGTGCTGTTTTATGGTTTTATGCCTGC  
 GAAAGCAACAGTTTTTAACTGAAGTGTGATCCTGTGTTGACTTTGGGACTGGTCTCGCAACGCGAGCA  
 TTCTATAGCCCTCATGGACATATATTAGTACTGGCTGGATTTGAAAACCTTCGAGGACAAATGGAAGTAT  
 GGGATGTTAAAACTACAAGCTTATTTCTAAGCCTGTGGCTTCTGATTCTACATTTTTGCCTGGTGCC  
 AGATGGTGAGCATATCTAACAGCCACGTGTGCTCCTAGTTCAGTGTAAATAATGGGTATAAGATTTGG  
 CATTACACTGGCTCTCTTGTATAAGTATGATGTGCCATCCAATGGCGAATTGTGGCAGGTTTCTTGGC  
 AGCCATTTTTGGATGGAATATTTCCAGCAAAAACGATAACGTACCAAGCAGTTCGAAGTGAAGTGCCTAG  
 TGAGGAGCCTAAAGTTGCAACAGCTTATAGACCCTCCAGCCTTAAGAAATAAACCAGTCACCAGTTCCAAG  
 CTGCATGAAGAGGAACCTCCCCAGAATATGAAGCCACATCCATCAAGTGACAAGCCATTATCAAAAAACAG  
 CCCTTAAAAATCAAAGGAAGCATGAAGTAAAAAAGCTGCAAAACAGGAGGCAAGAAATGATTTGGCTCC  
 TACTCCTGTCCCACAGAGTGCACCACGGAGCACTGTCAACCAGTCTGCTTCGGGTGATCCTGAAGTAGAC  
 AAAAAAATTAAGAATCTAAAGAAGAACTGAAAGCGATAGAGCAGCTGAAAGAGCAGGCAGCCGCTGGGA  
 AGCAGCTAGAGAAAAATCAGTTGGAGAAAATCAAAAAGAGACAGCCCTTCTCCAAGAATTGAAGATT  
 GGAATTGGGAGTTGGAATTGGGAGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201442 representing NM\_001109339  
 Red=Cloning site Green=Tags(s)

MDPHTSQRACQCFQENLEKIAKSILLVRMGHCLPGAMEKICLEFSPNNTVLATWQPYTTSKDGTAGTPNLQ  
 LYDVKTGTCLKSFIQKKMQNWCPSSWSDDEIICARNVNNEVHFFENNNFNTIANKLHLQKVNDFNLSPGTQ  
 PFKVAVVYVPGSKGAPSFVRLYQYPNFAGPQAALANKSFFKADKVTMLWNKKATAVLVIASTDVDKTGASY  
 YGEQTLHYIATNGESAVVQLPKNGPIYDVAWNPSSTEFCAVYGFMPAKATVFNLKCDPVDFGTGPRNAA  
 FYSPHGHILVLAGFNLRGQMEVWDVKNYKLISKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIW  
 HYTGSLLYKYDVPSNGELWQVSWQPFLDGIFPAKTITYQAVPSEVPSEEPKVATAYRPPALRNKPVTSK  
 LHEEPPQNMKPHPSSDKPLSKTALKNQRKHEAKKAQKQEARNDLAPTPVQSAAPRSTVTQSASGDPEVD  
 KKIKNLKKLKAIEQLKEQAAAGKQLEKNQLEKIQKETALLQELEDLELGVGIGS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

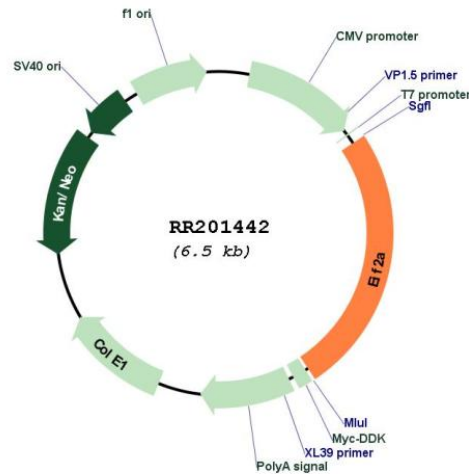
Cloning Scheme:

Cloning sites used for ORF Shutting:



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

Plasmid Map:



ACCN: NM\_001109339

ORF Size: 1623 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 Size:** 2012 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 502531

**Cytogenetics:** 2q26

**MW:** 60.2 kDa