

Product datasheet for **RR205058**

Eef1a1 (NM_175838) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eef1a1 (NM_175838) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef1a1
Synonyms:	EEF-1; EEF1A; Eef1a2; Eef1a2l1; EF1A; SI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205058 representing NM_175838
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAAAGGAAAAGACTCACATCAACATCGTCGTAATTGGACACGTAGATTCCGGCAAGTCCACCACAA
 CCGGCCACCTGATCTACAAATGGTGGAAATCGACAAAAGAACCATTGAAAAGTTTGAGAAGGAGGCTGC
 GGAGATGGGAAAAGGCTCCTTCAAGTATGCCTGGGTCCTGGACAAACTGAAAGCTGAGCGTGAGCGTGTT
 ATCACTATTGACATCTCCCTGTGGAAGTTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAG
 GACACAGAGACTTCATCAAGAACATGATTACGGGCACATCTCAGGCTGACTGCGTGTCTGATTGTTGC
 TGCTGGTGTGGGGAATTTGAAGCTGGTATCTCCAAGAACGGGCAGACCCGTGAGCATGCTCTTCTGGCT
 TACACTTTGGGTGTGAACAGCTAATTGTTGGTGTCAACAAAATGGATTCCACCGAGCCACCATACAGTC
 AGAAGAGATACGAGGAAATCGTTAAGGAAGTCAGCACCTACATTAAGAAAATTGGCTACAACCTGACAC
 AGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTCTAATATGCCGTGG
 TTCAAGGGATGGAAAGTACCCGCAAAGATGGCAGTGCCAGTGGCACCACGCTGCTGGAAGCTTTGGACT
 GCATTCTGCCGCAACTCGTCCAAGTCAAGCCTCTGCGACTGCCCTCCAGGATGTCTATAAAATTGG
 CGGCATTGGCACTGTCCCTGTGGCCGAGTGGAACTGGTGTCTCAAACCTGGTATGGTGGTTACCTTT
 GCTCCAGTCAATGTAACAACTGAAGTCAAGTCTGTGGAATGCACCATGAAGCTTTGAGTGAAGCTCTGC
 CTGGGGACAATGTAGGCTTCAACGTAAGAAGCTGTCTGTCAAAGACGTTAGACGTGGCAATGTTGCTGG
 GGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCTGAACCATCCA
 GGCCAGATCAGTCTGGCTATGCCCTGTTCTGGACTGCCACACGGCCACATAGCATGCAAGTTTGCCG
 AGCTTAAAGAGAAGATCGATCGTCGTTCTGGTAAGAAGCTGGAAGATGGCCCAAATTTCTGAAGTCTGG
 TGATGCTGCCATTGTTGACATGGTCCCTGGCAAGCCATGTGTGTTGAAAAGCTTCTCTGACTACCCCTCA
 CTTGGTCTTTTCTGTTCTGTGACATGAGGCAGACAGTTGCTGTGGGTGTATCAAAAGCCGTGGACAAGA
 AGGCTGCAGGAGCTGGCAAAGTACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205058 representing NM_175838
 Red=Cloning site Green=Tags(s)

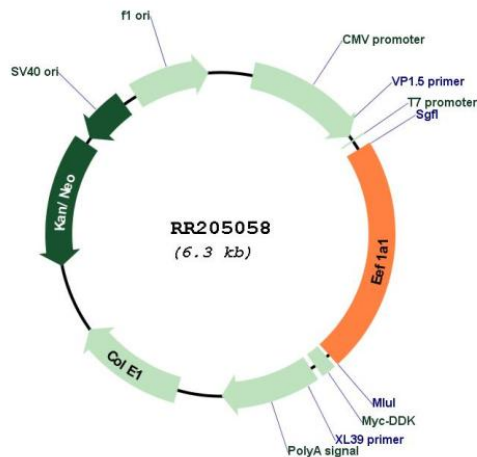
MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLAERER
 ITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKNQGTREHALLA
 YTLGVKQLIVGVNKMDSTEPYSQKRYEEIVKEVSTYIKKIGYNPDTVAFVPIISGWNGDNMLEPSANMPW
 FKGWVTRKDGSGSAGTLLLEALDCILPPTRPDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGMVVTF
 APVNVTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHP
 GQISAGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPP
 LGRFAVRDMRQTVAVGVIAVDKKAAGAKVTKSAQKAQKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_175838

ORF Size: 1386 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_175838.1](#), [NP_787032.1](#)

RefSeq Size: 1737 bp

RefSeq ORF: 1389 bp

Locus ID: 171361

UniProt ID: [P62630](#)

Cytogenetics: 8q31

MW: 50.1 kDa

Gene Summary: member of the EF-1 alpha family that tethers aminoacyl-tRNA to the ribosome during peptide synthesis [RGD, Feb 2006]