

Product datasheet for **MR207381**

Eef1a1 (NM_010106) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eef1a1 (NM_010106) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef1a1
Synonyms:	MGC7551; MGC8115; MGC8209; MGC18758; MGC27859; MGC102592; MGC103271; MGC118397
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207381 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAAAGGAAAAGACTCACATCAACATCGTCGTAATCGGACACGTAGATTCCGGCAAGTCCACCACAA
 CCGGCCACCTGATCTACAAATGGTGGAAATCGACAAGCGAACCATCGAAAAGTTTGAGAAAAGAGGCTGC
 TGAGATGGGAAAGGGCTCCTTCAAGTACGCTGGGTCTTAGACAAACTGAAAGCTGAGCGTGAGCGTGTT
 ATCACTATTGACATCTCCCTGTGAAAATTCGAGACCAGCAAATACTATGTGACCATCATTGATGCCCCAG
 GACACAGAGACTTCATCAAAAACATGATTACAGGCACATCCCAGGCTGACTGTGCTGCTGATTGTTGC
 TGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAACGGGCAGACCCGCGAGCATGCTCTTCTGGCT
 TACACCCTGGGTGTAACAGCTGATTGTTGGTGTCAACAAAATGGATTCCACCGAGCCACCATACAGTC
 AGAAGAGATACGAGGAAATCGTTAAGGAAGTCAGCACCTACATTAAGAAAATTGGCTACAACCTGACAC
 AGTAGCATTTGTCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTCTAATATGCCTTGG
 TTCAAGGGATGGAAGTACCCGCAAAGATGGCAGTGCCAGTGGCACCACGCTGCTGGAAGCTTTGGATT
 GTATCCTACCACCAACTCGTCCAAGTCAAGCCTCTGCGACTGCCCTCCAGGATGTCTATAAAATTGG
 AGGCATTGGCACTGTCCCTGTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGCATGGTGGTTACCTTT
 GCTCCAGTCAATGTAACAACTGAAGTCAAGTCTGTTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTC
 CTGGGGACAATGTGGGCTTCAATGTAAGAAGCTGTCGGTCAAAGATGTTAGACGAGGCAATGTTGCTGG
 TGACAGCAAAAACGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCA
 GGCCAAATCAGTGTGGCTACGCTCCTGTTCTGGATTGTACACAGCCACATAGCATGCAAGTTTGCTG
 AGCTTAAAGAAAAGATCGATCGTCGTTCTGGTAAGAAGCTGGAAGATGGCCCAAGTTCCTGAAGTTGG
 CGATGCTGCCATTGTTGATATGGTCCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCTGACTACCCCTCA
 CTTGGTCGCTTTGCTGTTGCTGACATGAGGCAGACAGTTGCTGTGGGTGTCATCAAAGCTGTGGACAAGA
 AGGCTGCTGGAGCTGGCAAAGTACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207381 protein sequence
 Red=Cloning site Green=Tags(s)

MGKEKTHINIVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLAERERG
 ITIDISLWKFETSKYYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKNGQTRHALLA
 YTLGVKQLIVGVNKMDSTEPYSQKRYEEIVKEVSTYIKKIGYNPDTVAFVPISGWNGDNMLEPSANMPW
 FKGWKVTRKDGSAAGTLLLEALDCILPPTRPDKPLRLPLQDVYKIGGIGTVPVGRVETGVLPKGMVTF
 APVNVTTVEKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHP
 GQISAGYAPVLDCHTAHIACKFAELKEKIDRRSGKLEDPKFLKSGDAAIVDMVPGKPMCVESFSDYPP
 LGRFAVRDMRQTVAVGVKAVDKKAAGAGKVTKSAQKAQKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010106

ORF Size: 1389 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_010106.1](#), [NM_010106.2](#), [NP_034236.2](#)
RefSeq Size: 1790 bp

RefSeq ORF: 1389 bp

Locus ID: 13627

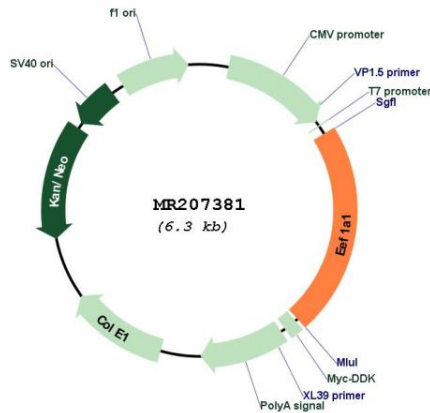
UniProt ID: [P10126](#)

Cytogenetics: 9 E1

MW: 50.1 kDa

Gene Summary: This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. With PARP1 and TXK, forms a complex that acts as a T helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207381