

Product datasheet for **RR210524**

Eif1a (NM_001008773) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif1a (NM_001008773) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Eif1a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210524 representing NM_001008773
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCAAAGAATAAAGGCAAAGGAGGCCAAAACAGGCCAGAGGTAAAAATGAAAATGAACCTGAGAAGA
GAGAGTTAGTGTTTAAAGAGGATGGCAAGAGTATGCTCAGGTGATCAAATGCTGGAAACGGACGGTT
GGAAGCAATGTGCTTTGACGGTGTGCGGAGGCTGTGCCACATAAGAGGGAAGTTGAGAAAAAAGGTTTGG
ATAAACACCTCAGACATTATACTGATTGGTCTACGAGACTACCAAGACAACAAGGCTGACGTAATCTTAA
AGTACAATGCAGACGAAGCAAGAAGTCTGAAGGCATATGGAGAACTCCAGAACATGCCAAAATCAATGA
AACGGACACATTTGGTCTGGGGATGACGATGAAATCCAGTTTGATATTGGAGATGATGATGAAGAC
ATTGATGATATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210524 representing NM_001008773
Red=Cloning site Green=Tags(s)

MPKNKGKGGKNRRRGKNENEPEKRELVFKEDGQEYAQVIKMLGNGRLEAMCFDGVRRRLCHIRGKLRKKVW
INTSDIILIGLRDYQDNKADVILKYNADARSCLKAYGELPEHAKINETDTFGPGDDDEIQFDDIGDDED
IDDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

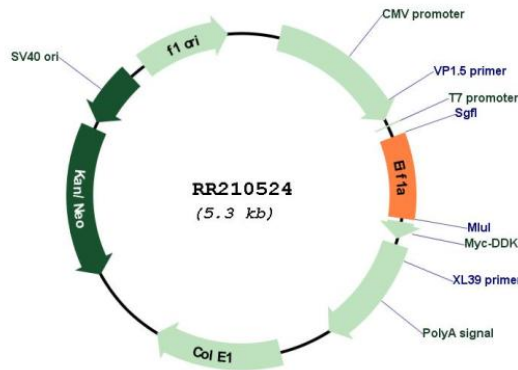


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001008773

ORF Size: 432 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:	<ol style="list-style-type: none">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:	<u>NM_001008773.2, NP_001008773.2</u>
RefSeq Size:	1857 bp
RefSeq ORF:	435 bp
Locus ID:	317163
Cytogenetics:	18q11
MW:	16.5 kDa
Gene Summary:	Seems to be required for maximal rate of protein biosynthesis. Enhances ribosome dissociation into subunits and stabilizes the binding of the initiator Met-tRNA(I) to 40 S ribosomal subunits (By similarity).[UniProtKB/Swiss-Prot Function]