

Product datasheet for **RR204609**

Eif2ak2 (NM_019335) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2ak2 (NM_019335) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2ak2
Synonyms:	Pkr; Prkr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR204609 representing NM_019335
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGTGATACACCAGGTTTCTACGTGGACAACTTAACAAATACTCCAGATACACAAAGTAAAGA
 TTATATATAAAGAAATTTCTGTTACAGGACCTCCACACGACAGAAGGTTTACATTTCAAGTTATAATAGA
 AGAGAGGGAAATTTCCAGAAGGTGAAGGTAGATCAAAGCAGGAGGCGAAAAATAATGCTGCCAAATAGCT
 GTCGAAATACTTGATAATGAAAACAAGGTGGATAGTCACACGGATGCTTCTGAACAAGGTTTAATAGAGG
 GGAACACATTGGCCTTGTCAATCTTTTGCCAGAAGGAAAACTGCCTGTAAATTTTGAAGTGTGTGA
 CCCCAGCTCCCAATTGCCTCACAGATTTATTTGTAATGCAAAATCGGGCAGACTACGTATGGTACTGGT
 TTCGGTGTAAACAAAAGGAGGCAAGCAGTTGGCTGCCAAAAATGCGTATCAGAAGCTGTCAGAGAAAA
 GCCCATCGAAAAGTGGCTTTGTACATCTTTATCCAGTGACTTTCCAGCAGCTCGTCTATAACAAGTAA
 CTCTGCTTCTCAGTCAGCATCTGGAAGGGATTTTCGAGGACATATTTATGAATGGTCTCAGAGAAAAAGG
 AAATCAGGAGTAAAGTGCCATCTGATGACGTGCTAAGAAATAAATATACCTTGGACGACAGGTTTAGCA
 AAGATTTTGAAGACATAGAAGAAATGGCTCGGGTGGATTTGGCCAAGTTTTCAAAGCAAAACACAGAAT
 CGATGGAAAGACGTATGCTATTAAGCGCATTACATATAACACCAAGAAGGCAAGCGTGAAGTACAAGCA
 CTAGCAGAACTCAATCACGCCAACATTGTTCAATACCGAGTTTGTGGGAGGGAGAGGACTATGACTATG
 ATCCCAGAACAGCACAAACGGTGACACAAGTCGATAACAAGACCCGGTGCCTCTTTATCCAAATGGAATT
 CTGTGATAAAGGAACTCTGCAGCAGTGGTTGAAAAGAGAAAATCGGAGTCAAGAGGACAAGGCTTTGGTT
 TTGGAGTTATTTGAACAAATAGTGACAGGAGTGGATTATACACTCGAAAGGTTAATTCATAGAGACC
 TTAAGCCAGGTAATATATTTTTAGTGGATGAAAACACATTAAGATCGGAGACTTTGGCCTTGCAACAGC
 CCTGGAAAATGATGGAATCCTCGAACAAAGTATACAGGAACTCCTCAATACATGAGTCCAGAACAAAAG
 TCATCGTTAGTGAATATGGAAGGAAGTGACATCTTTGCTTTGGCCTTATTCTAGCTGAACTTCTTC
 ACATATGCAAACTGATTCAGAGAAAAAGAGTTTTTCCAACCTTAAGAAATGGCATCTTCTCCGATGA
 TATTTTCGACAACAAGGAAAAAGCCTTCTACAGAAATTAAGTAAACCCAGGGAACGACCCAAT
 ACGTCTGAAATCCTGAAGACTTTGGCTGAGTGAAGAACATCTCGGAGAAAAAGAAAAGAACACGTG

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204609 representing NM_019335
 Red=Cloning site Green=Tags(s)

MASDTPGFYVDKLNKYSQIHKVKIYKEISVTGPPHRRFTFQVIEEREFPEGEGRSKQEAKNNAAKLA
 VEILDNENKVDSHDASEQGLIEGNYIGLVNSFAQKENLPVNFELCDPDSQLPHRFICKCKIGQTTYGTG
 FGANKKEAKQLAAKNAYQKLEKSPSKTFVTSLSDFSSSSITSNSASQSASGRDFEDIFMNGLRER
 KSGVKVPSDDVLRNKYTLDDRFKDFEDIEEIGSGGFQVFKAKHRIDGKTYAIKRITYNTKKAKREVQA
 LAELNHANIVQYRVCWEGEDYDYPENSTNGDTSRYKTRCLFIQMEFCDKGTLQQWLEKRNRSQEDKALV
 LELFEQIVTVGVDYIHSKGLIHRDLKPGNIFLVDEKHIKIGDFGLATALENDGNPRKYTGTPQYMSPEQK
 SSLVEYKQVDFALGLILAELLHICKTDSEKIEFFQLLRNGIFSDIFDNKEKSLQLKLLSSKPRERP
 TSEILKTLAEWKNISEKKRNTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1970_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019335

ORF Size: 1539 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

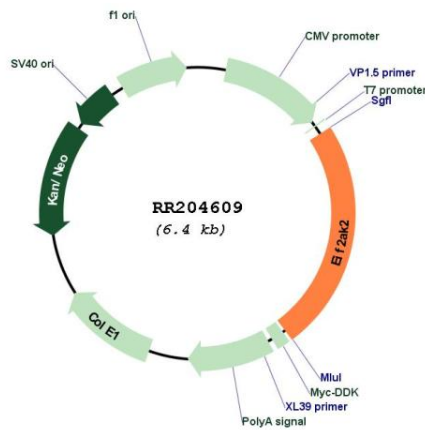
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019335.1, NP_062208.1](#)
RefSeq Size: 3808 bp
RefSeq ORF: 1542 bp
Locus ID: 54287
UniProt ID: [Q63184](#)
Cytogenetics: 6q11
MW: 58.7 kDa
Gene Summary: double-stranded RNA dependent eukaryotic initiation factor 2-kinase [RGD, Feb 2006]

Product images:



Circular map for RR204609