

## Product datasheet for **RN204609**

### Eif2ak2 (NM\_019335) Rat Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >RN204609 representing NM\_019335  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGTGATACACCAGGTTTCTACGTGGACAACTTAACAAATACTCCAGATACACAAAGTAAAGA  
 TTATATATAAAGAAATTTCTGTTACAGGACCTCCACACGACAGAAGGTTTACATTTCAAGTTATAATAGA  
 AGAGAGGGAATTTCCAGAAGGTGAAGGTAGATCAAAGCAGGAGGCGAAAAATAATGCTGCCAAATAGCT  
 GTCGAAATACTTGATAATGAAAACAAGGTGGATAGTCACACGGATGCTTCTGAACAAGGTTTAATAGAGG  
 GGAACACATTGGCCTTGTCAATCTTTTGCCAGAAGGAAAACTGCCTGTAAATTTTGAAGTGTGTGA  
 CCCCAGCTCCCAATTGCCTCACAGATTTATTTGTAATGCAAAATCGGGCAGACTACGTATGGTACTGGT  
 TTCGGTGTAAACAAAAGGAGGCAAGCAGTTGGCTGCCAAAAATGCGTATCAGAAGCTGCAGAGAAAA  
 GCCCATCGAAAAGTGGCTTTGTACATCTTTATCCAGTGACTTTCCAGCAGCTCGTCTATAACAAGTAA  
 CTCTGCTTCTCAGTCAGCATCTGGAAGGGATTTTCGAGGACATATTTATGAATGGTCTCAGAGAAAAAGG  
 AAATCAGGAGTAAAAGTGCCATCTGATGACGTGCTAAGAAATAAATATACCTTGGACGACAGGTTTAGCA  
 AAGATTTTGAAGACATAGAAGAAATGGCTCGGGTGGATTTGGCCAAGTTTTCAAAGCAAAACACAGAAT  
 CGATGGAAAGACGTATGCTATTAAGCGCATTACATATAACACCAAGAAGGCAAGCGTGAAGTACAAGCA  
 CTAGCAGAACTCAATCACGCCAACATTGTTCAATACCGAGTTTGTGGGAGGAGAGGACTATGACTATG  
 ATCCCAGAACAGCACAAACGGTGACACAAGTCGATACAAGACCCGGTGCCTCTTTATCCAAATGGAATT  
 CTGTGATAAAGGAACTCTGCAGCAGTGGTTGGAAAAGAGAAATCGGAGTCAAGAGGACAAGGCTTTGGTT  
 TTGGAGTTATTTGAACAAATAGTGACAGGAGTGGATTATACACTCGAAAGGTTAATTCATAGAGACC  
 TTAAGCCAGGTAATATATTTTTAGTGGATGAAAAACACATTAAGATCGGAGACTTTGGCCTTGAACAGC  
 CCTGGAAAATGATGGAAATCCTCGAACAAAGTATACAGGAACTCCTCAATACATGAGTCCAGAACAAAAG  
 TCATCGTTAGTGAATATGGAAAGGAAGTGACATCTTTGCTTTGGCCTTATTCTAGCTGAACTTCTTC  
 ACATATGCAAACTGATTCAGAGAAAAAGAGTTTTTCCAACCTTAAGAAATGGCATCTTCTCCGATGA  
 TATTTTCGACAACAAGGAAAAAGCCTTCTACAGAAATTAAGTAAACCCAGGGAACGACCCAAT  
 ACGTCTGAAATCCTGAAGACTTTGGCTGAGTGGAAAGACATCTCGGAGAAAAAGAAAAGAACACGTGTT  
 AG

**ACGGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_019335  
**Insert Size:** 1542 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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_019335.1</a></u> , <u><a href="#">NP_062208.1</a></u>
<b>RefSeq Size:</b>	3808 bp
<b>RefSeq ORF:</b>	1542 bp
<b>Locus ID:</b>	54287
<b>UniProt ID:</b>	<u><a href="#">Q63184</a></u>
<b>Cytogenetics:</b>	6q11
<b>Gene Summary:</b>	double-stranded RNA dependent eukaryotic initiation factor 2-kinase [RGD, Feb 2006]