

## Product datasheet for RN212846

### Eif2ak3 (NM\_031599) Rat Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Eif2ak3 (NM_031599) Rat Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | Eif2ak3   |
| Synonyms:            | PEK   |
| Vector:              | pCMV6-Entry (PS100001)  |
| E. coli Selection:   | Kanamycin (25 ug/mL)  |
| Cell Selection:      | Neomycin  |
| Fully Sequenced ORF: | >RN212846 representing NM_031599<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGCGCGCCACCCAGCCCCGACCGCGCGCTGCTGCTGCTGTTCTGCTGCTGGGCTGCGCGGGC  
GGATCTCAGCGGTGCGCGCGCCCGCAGCTTGCTGCTCCACATCGGATACGGCATTGGCTTGGGGC  
AGCAGCCGCCCTACTTCAGCCGCGGGTGCCTGCGGTGGCTACGGCCGAAGTGACCGTGAAGACGCC  
GAGGCATTGCCCGCTGCCTCCGGCGAACAGGAGTACGCGCGACCGAGTCCGATGACGACGTGAACTGC  
GGCCTCGCGGCAGTCTTAGTAATCATCAGCACTTTAGATGGACGAATTGCCGCACTGGATGCCGAGAA  
TCATGGGAAAAAGCAGTGGGATTTGACGCTGGGATCTGGTTTCTTGGTTTCATCTAGCCTTAGCAAGCCA  
GAGGTGTTTGGGAACAAGATGATCATTCCCTCCCTGGACGGAGACCTCTTCCAGTGGGACCGAGACCGAG  
AGAGCATGGAGGCCGTCCCTTTCACTGTGGAGTCCCTTCTCGAATCTTCATAACAAGTTGGAGATGATGT  
TGTTCTGGTTGGAGGAAAGTCTCTGACCACATACGGGCTCAGTGCATATAGTGGAAAGCTGAGGTATATC  
TGTTCTGCCTGGGATGTCGCCGATGGGATAGTGATGAAATGGAAGAAGGAAGACATCTGCTTCTGC  
AACGCACGCAGAAGACTGTGCGAGCTGTCGGGCTCGAAGCGGCAGTGAGAAGTGAATTCAGTGTGG  
CCACTTTGAACCTCGGTATATTCCAGACATGGAAGCTAGAGCCGATTTCATTGAAAGCACCTTTAACTG  
GGTGGAAACAAAGAAGACTCTAAAATCATTTCAGATGTGGAAGAACAAGATGTGGACACAGTGATAAAAG  
TTTCCGTTGCTGATTGGAAGGTGATGGCGTTTAGTAAGAAGGGAGGCCGCTAGAATGGGAGTACCAGTT  
TTGTAATCCATTGCGTCTGCCTGGCTGGTGGAGGATGGTAAAGTCAATCCCATCAGTCTGTTTGTGAC  
ACAAGTTACACAGCCAATGAGGAAGTTTGAAGATGAAGAAGACATTGTAGAGGCTGCTCGGGAGCCA  
CAGAGAACAGCGTACTTAGGGATGTACAGAGGCCAGCTGTACCTGCAATCATCCGTGAGGCTCTCGGA  
AAAGTTCCCTACAAGGCCGAAGGCTTGGAGTCTGTAATGGAGAAAGTCCATTATTCCTGCGGACG  
ATCAAATGGAAGCCCTTAATCCATTCTCGTCTAGGACTCTGTCTTGGTTGGGTCTGATGAATTTGACA  
AGTGTCTAAGTAATGATAAATATTTCCATGAAGAATACAGTAATGGTGGCCTTTCAATCCTACAGTATCC  
ATATGACAACGGTTACTATCTGCCTTATTACAAGAGAGAAAGGAATAAGCGGAGCACGCAGATCACGGTC  
AGGTTCTGGACAGCCGCACTACAGCAAGAACATCCGCAAGAAGGACCCATCCTCCTCTGCACTGTT



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GGAAGGAAATATTTGGAACGATCTTGCTTTGCATTGTGGCCACGACCTTTATCGTGCGCAGGCTTTTCCA  
 TCCTCAGCCCCACAGGCAACGGAAGGAGTCTGAAACTCAGTGCCAACTGAAAGTAAATACGACTCTGTG  
 AGTGCTGATAACAGCGACAACAGCTGGAACGACATTAACACTCAGGATACGTGTCCCGATACCTAACAG  
 ATTTTGAGCCAATTCAGTGCATGGGTCGAGGCGGCTTTGGCGTTGTCTTTGAAGCTAAGAACAAAGTAGA  
 TGACTGCAATTACGCCATCAAGAGGATCCGTCTCCAAACAGGGAGCTGGCACGGGAGAAGGTAATGCGG  
 GAAGTCAAAGCCTTGGCTAAGCTGGAGCACCCAGGCATCGTGAGGTATTTCAATGCGTGGCTGGAACAC  
 CACCAGAGAAGTGGCAAGAGGAGATGGATGAAATCTGGCTGAAGGACGAAAGCACAGACTGGCCACTCAG  
 CTCCCCTAGCCCAATGGATGCCCATCTGTTAAGATCCGGCAGATGGATCCTTTCTACAAAAGAACAG  
 ATTGAAGTCATAGCTCCTTCTCCTGAAAGAAGTCGGTCTTTCTCAGTGGGCATTTCTGTGGCCGGACAA  
 GCTCATCTGAGAGCCAGTTCTCTCCCCTGGAGTTCTCAGGGACAGACTGTGGAGACAACAGTGACTCAGA  
 GGACGCAGCCCACAACCTCCAGGACAGCTGCCTGACAGATTGCGACATGGAAGATGGTACAGTGGACGGC  
 GATGATGAGGGACACTCCTTTGAACTTTGTCTTCTGAAGCTTCTCCCTATACCAGGTCAAGGGAGGGAA  
 CGTCTCTTCCATAGTGTGTTGAAGACTCTGGCTGTGATAATGCGTCCAGTAAGGAGGACCCAGAATGAA  
 TCGGCTGCATAATGGCCACCATTAGTTAATAAGCTAACTGAGTCAAGCACTCCAGCAGCAGGTCTTCT  
 TCCGAAGCCACCTTGCTACCTCTCTACCAGGCCAACCCCTAAGTTTAGATTTACCAGGAACACGG  
 TGGACCGCTCCAGCCAGCTCCCCAAGGTGTACCTGTACATCCAGATGCAGCTGTGCAGGAAGGAGAA  
 CCTTAAAGACTGGATGAACCGGCGCTGCAGCATGGAGGACAGGGAGCACAGAGTGTGCCTGCACATCTTT  
 CTGCAGATCGCAGAGGCAGTGCAGTTTCTGCACAGCAAGGGACTCATGCACAGGGACCTCAAGCCTTCCA  
 ACATATTTCTTACAATGGATGATGTGGTCAAAGTTGGGGACTTTGGGCTAGTGACTGCAATGGACCAGGA  
 TGAAGAAGAGCAGACAGTACTGACTCCAATGCCAGCCTATGCTACACACACGGGACAAGTCGGGACCAAG  
 CTGTACATGAGCCAGAACAGATTATGAAACAACACTCCCATAAAGTGGACATCTTCTTTAGGCT  
 TGATTCTGTTTGAACCTCTTTACCCATTCAGCACTCAGATGGAACGAGTTAGGACTTTAACTGATGTAAG  
 AAATCTCAAGTTTCCACCAGTTCCTCACTCAGAAATATCCCAAGAGCATATGATGGTTCAAGACATGCTT  
 TCTCCATCCCCCATGGAGCGGCCTGAAGCCACAGACATCATTGAAAATGCTGTGTTTGAGAACTTGAGT  
 TTCTGGGAAAACGGTTCTGAGACAGCGGTCCCGCTCCTTGAGTTCATCCGGAACATAACATTCCAGACA  
 GCCCAGCAGCACATTCAGCCCACTGCCTGGCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_031599
- Insert Size:** 3327 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_031599.2](#), [NP\\_113787.1](#)

RefSeq Size: 4509 bp

RefSeq ORF: 3327 bp

Locus ID: 29702

UniProt ID: [Q9Z1Z1](#)

Cytogenetics: 4q31

Gene Summary: kinase that phosphorylates eukaryotic initiation factor 2alpha; has an important role in translational control [RGD, Feb 2006]