

Product datasheet for **RR209421**

Eif2ak1 (NM_013223) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2ak1 (NM_013223) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2ak1
Synonyms:	Hri
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209421 representing NM_013223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGGGGCGCTCCGTGGATGGCGAGCGCACACGGACGACGACGCGGGCGGGGGCGGTGGCCGCGC
 CTCTGCCATCGACTTCCCAGCAGAGGTGTCGACCCCAAGTATGATGAGTCCGATGTCCAGCAGAGCT
 CCAAGTGTCAAAGAGCCCTTGACGACGCCACGTTCCCTTTCTTAGTGGCAAACCAGCTGCTGTGGTC
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 TGTGCCAGACTTTTATCAAGTGGGGCTGCTCTCTTCTTTACCTGCAGCGATGAGTTCAGCTCCCTGAG
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 GCAACTAAGCCTCTTTTCGACAGGACAAAGGGCTGAAGAGA

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Protein Sequence:

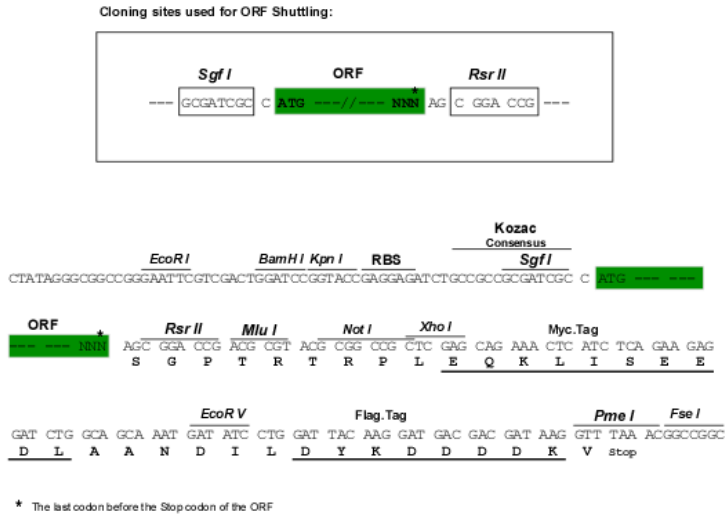
>RR209421 representing NM_013223
 Red=Cloning site Green=Tags(s)

MLGGSVSDGERDTHDDAAGAVAAPPAIDFPAEVS DPKYDES DVP AELQVFKEPLQPTFPFLVANQLLLV
 SLLLEHL SHVHEPNPLHSKQVFKLLCQTFIKMGLLSSFTCSDEFSSLRLHHNRAITHLMRSAKERVQDPC
 QDNSYMQKIRSREIALEAQT SRYLNEFEELAILKGGYGRVYKVRNKLDGQHYAIKKILIKSATKTDCKM
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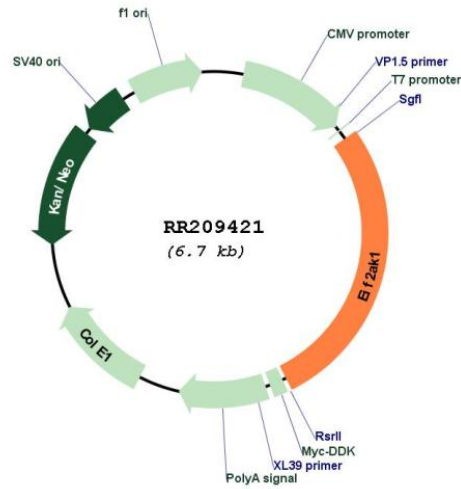
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_013223

ORF Size: 1860 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:	NM_013223.1 , NP_037355.1
RefSeq Size:	2145 bp
RefSeq ORF:	1863 bp
Locus ID:	27137
UniProt ID:	Q63185
Cytogenetics:	12p11
MW:	69.6 kDa
Gene Summary:	protein kinase, negatively regulated by hemin; may play an important role in translational control of protein synthesis [RGD, Feb 2006]