

Product datasheet for **RG200065**

EIF2AK1 (NM_014413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2AK1 (NM_014413) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF2AK1
Synonyms:	HCR; hHRI; HRI; LEMSPAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200065 representing NM_014413
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTGGGGCTGTGGCTGCGC
 CGCCGGCCATCGACTTTCCCGCCGAGGGCCCGGACCCCGAATATGACGAATCTGATGTTCCAGCAGAAAT
 CCAGGTGTTAAAAGAACCCTACAAACAGCCAACCTTCCCTTTTGCAGTTGCAAACCAACTCTTGCTGGTT
 TCTTTGCTGGAGCACTTGAGCCACGTGCATGAACCAAACCCACTTCGTTCAAGACAGGTGTTAAGCTAC
 TTTGCCAGACGTTTATCAAAATGGGGCTGCTGTCTTTTCACTTGTAGTGACGAGTTTAGCTCATTGAG
 ACTACATCACAACAGAGCTATTACTCACTTAATGAGGTCTGCTAAAGAGAGAGTTCGTCAGGATCCTTGT
 GAGGATATTTCTCGATCCAGAAAATCAGATCAAGGGAAGTAGCCTTGGAAACACAAACTTCACGTTACT
 TAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGGTGGATACGGAAGAGTATACAAGGTCAAGAAATA
 ATTAGATGGTCAGTATTATGCAATAAAAAAATCCTGATTAAGGGTGCAACTAAAACAGTTTGCATGAAG
 GTCTACGGGAAGTGAAGGTGCTGGCAGGTCTTACGACCCCAATATTGTTGGCTATCACACCGCGTGGGA
 TAGAACATGTTTATGTGATTAGCCACGAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGGAAGTGCT
 CTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTGTAAAAATGATGAAAGTAGCAGCTCATCCATTATC
 TTTGCTGAGCCACCCAGAAAAAGAAAAACGCTTTGGAGAATCTGACACTGAAAATCAGAATAACAAGT
 CGGTGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTTGAAGTGCACCCCTGGAGCTCCAGGA
 AAATGGCTTGGCTGGTTTGTCTGCCAGTCAATGTGGAACAGCAGCTGCCACTCAGGCGTAATTTCCAC
 CTAGAGGAGAGTTTACATCCACCGAAGAATCTCCGAAGAAAATGTCAACTTTTTGGGTGAGCAGAGG
 CACAGTACCACCTGATGCTGCACATCCAGATCCAGCTGTGTGAGCTCTCGCTGTGGGATGGATAGTCGA
 GAGAAACAAGCGGGGCCGGGAGTATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAATGTTGCAACA
 AAAATTTTTCAAGAATTGGTAGAAGGTGTGTTTTACATACATAACATGGGAATTGTGACCCGAGATCTGA
 AGCCAAGAAATATTTTTCTCATGGCCCTGATCAGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGCAC
 AGACATCTACAGAAGAACACAGACTGGACCAACAGAAACGGGAAGAGAACACCAACACATACGTCCAGA
 GTGGGTACTTGTCTGTACGCTTACCCGAACAGTTGGAAGGATCTGAGTATGATGCCAAGTCAGATATGT
 ACAGCTTGGGTGTGGTCTGCTAGAGCTTTTACGCCGTTTGGAAACAGAAATGGAGCGAGCAGAAGTTCT
 AACAGTTTAAAGAACTGGTCAGTTGCCGGAATCCCTCCGTAAGAGGTGTCCAGTGAAGCAAGTATATC
 CAGCACTTAACGAGAAGGAACTCATCGCAGAGACCATCTGCCATTAGCTGCTGCAGAGTGAACCTTTTCC
 AAAATTTGGAATGTTAACCTACCCCTACAGATGAAGATAATAGAGCAAGAAAAAGAAATTCAGAACT
 AAAGAAGCAGCTAAACCTCTTTCTCAAGACAAAGGGGTGAGGGATGACGGAAGGATGGGGCGTGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200065 representing NM_014413
 Red=Cloning site Green=Tags(s)

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESVP AEIQVLKEPLQQPTFPF AVANQLLLV
 SLLEHL SHVHEPNPLRSRQVFKLLCQTFIKMGLLSSFTCSDEFSSLRLHNNRAITHLMRS AKERVQRDPC
 EDISRIQKIRSREVALEAQT SRYLNEFEELAILGKGGYGRVYKVRNKLDGQYYAIKKILIKGATKTVCMK
 VLREVKVLAGLQHPNIVGYHTAWIEHVHVIQPRADRAAIELPSLEVLSDQEEDREQCGVKND ESSSSII
 FAEPTPEKEKRFGESDTENQNNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQLPLRRNSH
 LEESFTSTEESEENVNFLGQTEAQYHMLHIQMQLCELSLWDWIVERNKRGREYVDESACPYVMANVAT
 KIFQELVEGVFYIHNMGIVHRDLKPRNIFLHGPDQQVKIGDFGLACTDILQKNTDWTNRNGKRTPTHTSR
 VGTCLYASPEQLEGSEYDAKSDMYSLGVVLEL FQPFGTEMERAEVL TGLRTGQLPESLRKRCPVQAKYI
 QHLTRRNSQRPSAIQLLQSELFQNSGNVNLTLQMKIIIEQEKEIAELKKQLNLLSQDKGVRDDGKDGGVG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014413

ORF Size: 1890 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:

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_014413.4](#)

RefSeq Size: 4465 bp

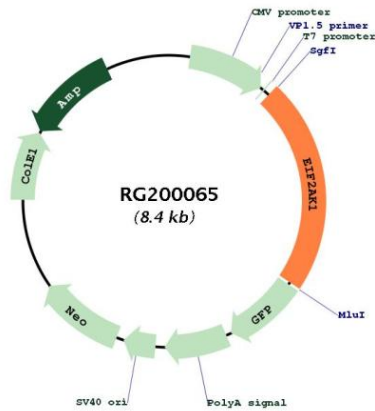
RefSeq ORF: 1893 bp

Locus ID: 27102

UniProt ID: [Q9BQI3](#)

Cytogenetics: 7p22.1
Domains: pkinase, TyrKc, S_TKc
Protein Families: Druggable Genome, Protein Kinase
Gene Summary: The protein encoded by this gene acts at the level of translation initiation to downregulate protein synthesis in response to stress. The encoded protein is a kinase that can be inactivated by hemin. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RG200065