

Product datasheet for **SC115013**

EIF2AK1 (NM_014413) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | EIF2AK1 (NM_014413) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | EIF2AK1 |
| Synonyms: | HCR; hHRI; HRI; LEMSPAD |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF sequence for NM_014413 edited
 ATGCAGGGGGCAACTCCGGGTCGCAAGCGCAAGAGGAGGGCGACGGGGCTGGGGCT
 GTGGCTGCGCCGCGCCATCGACTTTCCGCGGAGGGCCCGACCCGAATATGACGAA
 TCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTACAACAGCCAACCTCCCT
 TTTGCAGTTGCAAACCACTCTTGCTGGTTTCTTGCTGGAGCACTTGAGCCACGTGCAT
 GAACCAAAACCACTTCGTTCAAGACAGGTGTTAAGCTACTTTGCCAGACGTTTATCAAA
 ATGGGGCTGCTGCTTCTTTCACCTGTAGTGACGAGTTTAGCTCATTGAGACTACATCAC
 AACAGAGCTATTACTCACTTAATGAGGTCTGCTAAAGAGAGAGTTCGTCAGGATCCTTGT
 GAGGATATTTCTCGTATCCAGAAAATCAGATCAAGGGAAGTAGCCTTGGAAAGCACAACT
 TCACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGTGGATACGGAAGA
 GTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATGCAATAAAAAAATCTGATT
 AAGGGTGCACACTAAACAGTTTGCATGAAGTCTACGGGAAGTGAAGGTGCTGGCAGGT
 CTTCAGCACCCCAATATTGTTGGCTATCACACCGCTGGATAGAACATGTTTATGATT
 CAGCCACGAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGGAAGTCTCTCCGACCAG
 GAAGAGGACAGAGCAATGTGGTGTAAAAATGATGAAAGTAGCAGCTCATCCATTATC
 TTTGCTGAGCCACCCAGAAAAAGAAAAACGCTTTGGAGAATCTGACACTGAAAATCAG
 AATAACAAGTCGGTGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTGAG
 TCGACCCTGGAGCTCCAGGAAAATGGCTTGGCTGGTTTGTCTGCCAGTTCAATTGTGAA
 CAGCAGCTGCCACTCAGGCGTAATCCCACCTAGAGGAGAGTTTACATCCACCGAAGAA
 TCTTCCGAAGAAAATGTCAACTTTTGGGTGAGACAGAGGCACAGTACCACCTGATGCTG
 CACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATTGGATAGTCGAGAGAAAACAG
 CGGGCCGGGAGTATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAATGTTGCAACA
 AAAATTTTTCAAGAATTGGTAGAAGGTGTTTTACATACATAACATGGGAATTGTGCAC
 CGAGATCTGAAGCCAAGAATAATTTTTCTCATGGCCCTGATCAGCAAGTAAAAATAGGA
 GACTTTGGTCTGGCCTGCACAGACATCCTACAGAAGAACACAGACTGGACCAACGAAAAC
 GGAAGAGAACACCAACACATACGTCCAGAGTGGTACTTGTCTGTACGCTTACCCGAA
 CAGTTGGAAGGATCTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGGTCTG
 CTAGAGCTCTTTCAGCCGTTTGGAACAGAAATGGAGCGAGCAGAAGTTCTAACAGTTTA
 AGAACTGGTCAGTTGCCGAATCCCTCCGTAAGGTGTCCAGTGAAGCAAGTATATC
 CAGCACTTAACGAGAAGGAACTCATCGCAGAGACCATCTGCCATTAGCTGCTGCAGAGT
 GAACTTTTCCAAAATTCTGGAATGTTAACCTCACCTACAGATGAAGATAATAGAGCAA
 GAAAAAGAAATTGCAGAACTAAAGAAGCAGCTAAACCTCTTTCTCAAGCAAAGGGGTG
 AGGGATGACGGAAGGATGGGGCGTGGGATGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014413 unedited
 GTCAGAATTTTGTAAATACGAACTCACTATAGGGCGCCGCGATTTCGGCACGAGGGCTAGC
 TGCAGCATCGGAGTGTGGCAGTGTGGCTGGCCGGCGGGCTGGGCTGCGCCCCGCGCGC
 GGCCGGCGATGCAGGGGGCAACTCCGGGGTCCGCAAGCGCAAGAGGAGGGCGACGGGG
 CTGGGGCTGTGGCTGCGCCGCGGCCATCGACTTTCCCGCCGAGGGCCCGACCCGAAT
 ATGACGAATCTGATGTTCCAGCAGAAAATCCAGGTGTTAAAAGAACCCTACAACAGCCAA
 CCTTCCCTTTTGCAGTTGCAAACCAACTCTTGCTGGTTTCTTGTGAGCACTTGAGCC
 ACGTGCATGAACCAACCACTTCGTTCAAGACAGGTGTTAAGCTACTTTGCCAGACGT
 TTATCAAAATGGGGCTGCTGTCTTCTTCACTTGTAGTGACGAGTTTAGCTCATTGAGAC
 TACATCACAACAGAGCTATTACTCACTTAATGAGGTCTGCTAAAGAGAGAGTTTCGTGAG
 ATCCTTGTGAGGATATTTCTCGTATCCAGAAAATCAGATCAAGGGAAGTAGCCTTGGAA
 CACAAACTTACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTANGAAAAGGTGGAT
 ACGGAAGAGTATACAAGTCCAGGAATAAATTAGATGGTCAGTATTATGCCATAAANAAAA
 TCCTGATTAANGGGTGCCTAANACAGTTTGCATGAAGTCTACGGGAAAGTGAAGGTG
 CTGNCAGTCTTTCAGCACCCCAATATTGNTGGCTATCACACCGCGGGGATAGAACATGTT
 CATGTGATTACGCCACGAGCAGACAGAGCTGCCATTGAGNTGGCATTCTGGGAGTGTCT
 TCCGACAGNAAGAGACAGAAG

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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_014413 unedited CCGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGGATGAGGTCCAAGTT TTTAGTTTCAGAGACTAGGCATATGGTTAATATTTAGGTAGGAAATTCAGGAAAAGGAGC TTGTGGGGCAGGAAGGGAAGGAACGGCAGCTTGGGGCACTCTGACATCTTTAACAAAGTCT TGTAAGGCTTACTAAATACAACGAAGCATTGTACCAACTATACCCTAATAAAGATTTAAA AATTTACATTCCAGTTAACTACCTTAAAAGTTAAGTCCACTTTCATCCCACGCCCCATC CTTCCGTCATCCCTCACCCCTTTGTCTTGAGAAAGGAGGTTTAGCTGCTTCTTTAGTTC TGCAATTTCTTTTTCTTGCTCTATTATCTTCATCTGTAGGGTGAGGTTAACATTTCCAGA ATTTTGGAAAAGTTCACCTCTGCAGCAGCTGAATGGCAGATGGTCTCTGCGATGAGTTCCT TCTCGTTAAGTGCTGGATATACTTGGCTTGCACCTGGACACCTTTTACGGAGGGATTCCGG CAACTGACCAGTTCTTAAACCTGTTAGAATTCTGCTCGCTCCATTTCTGTTCCAAACGG CTGAAAGAGCTCTAGCAGGACCACACCCAAGCTGTACATATCTGACTTGGCATCATACTC AGATCCTTCCAAGTTCGGGTGAAGCGTACAGACAAGTACCCACTCTGGACGTATGTGT TGGTGTCTCTTCCCGTTTCTGGTGGTCCAGTCTGTGNTCNTCTGAAGATGTCTGTGCA GGCCAAACCAAAGTCTNCTATTTTTACTTGCTGATCAAGGCCATGAAGAAAATATTTCT GGCTTCAGATCTCGGNGACAATTTCCCATGTTATGNATGTAAAACCACTTCTACCATNC TTGAAAATTTTCTGTGCACATGGNCCATAACTAAGGCAGGCAGACTCGTCCCATACTNCC GGCCCGCTTGTCTTTGA |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_014413 |
| Insert Size: | 2240 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: | <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: | <u>NM_014413.2</u> , <u>NP_055228.2</u> |
| RefSeq Size: | 2813 bp |
| RefSeq ORF: | 1893 bp |
| Locus ID: | 27102 |
| UniProt ID: | <u>Q9BQI3</u> |
| Cytogenetics: | 7p22.1 |
| Domains: | pkinese, 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.