

## Product datasheet for **SC209231**

### PKR (EIF2AK2) (NM\_002759) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	PKR (EIF2AK2) (NM_002759) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	EIF2AK2
Synonyms:	EIF2AK1; LEUDEN; PKR; PPP1R83; PRKR
ACCN:	NM_002759
Insert Size:	2000 bp



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**Insert Sequence:**

>SC209231 3'UTR clone of NM\_002759

The sequence shown below is from the reference sequence of NM\_002759. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCAGAGAAAAATGAACGACACACATGTTAGAGCCCTTCTGAAAAAGTATCCTGCTTCTGATATGCAGTT
TTCTTAAATTATCTAAATCTGCTAGGGAATATCAATAGATATTTACCTTTTATTTAATGTTTCCTT
TAATTTTTTACTATTTTTACTAATCTTTCTGCAGAAACAGAAAGTTTTCTTCTTTTTGCTTCAAAAAAC
ATTCTTACATTTTACTTTTTCTGGCTCATCTCTTTATTCTTTTTTTTTTTTTAAAGACAGAGTCTCGC
TCTGTTGCCAGGCTGGAGTGAATGACACAGTCTTGGCTCACTGCAACTTCTGCCTCTTGGGTTCAAG
TGATTCTCCTGCCTCAGCCTCTGAGTAGCTGGATTACAGGCATGTGCCACCCACCAACTAATTTTTG
TGTTTTTAATAAAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTAATC
CACCTGCCTCGGCCTCCCAAAGTCTGGGATTACAGGGATGAGCCACCGGCCAGCCTCATCTCTTTG
TTCTAAAGATGGAAAAACCCCAAAATTTTCTTTTTATACTATTAATGAATCAATCAATTCATATCT
ATTTATTAATTTCTACCGCTTTTAGGCCAAAAAATGTAAAGATCGTTCTCTGCCTCACATAGCTTACA
AGCCAGCTGGAGAAATATGGTACTCATTAAAAAAGTATGTACAACCACTTCGGAAAAAC
AATTTGGCATTATCTAGTAAAGTTGAATCCATGTATACCCACATAGCTATCAATTTCTATTCTACATAC
GTGCTTACAAGAATGTCCATAAAACCCTGTTTATAATAGCCAAAAGAAGGGAACAACCAATATGCAC
ATCAAAAGAAGAATGGATTAATAAATTTATTTACACACAGGAGTACTATATAGTATTGAAAACAATT
GAAGTACAGCTAAATGTAATAACGTAAACAATACTCAGAAACATAATGTTAAGCGAACAAGC
AGGTTTTTCAGAAAAATATGCAGAATAATCCATTTATATAAAGTCCAGAGCATGCAAACTAAATCA
TTTTGTATAAAAAACCCAAACAATGTGATGAGACAATAATGGGAAGGAAGGAATGAGAAATATTAAT
TCTGGATGGTGGTTATCTTTGAGGGAGGGAATGATGTGATTGGGGAATGGACTTTCAAAGTAATGG
TAACCTTCCTTAAGCTGGATGGTAGGTCCACTAGTGTGCTGCATAGTTATACCTTTTATCTTAAATAC
ATTTTGTATCTATTGTAACAACCACTTTAAAGACAACCGTGTGTAAGGCAGTAGCTAAAAACAGAAAA
TAGTCCATCGGGAAGGGTAAGATGGCTTTCTGCTGAGCACAGGGCTAGAAGTGACAGCCAGTGGCCT
TCCAATATATGCCAGGGTGTAGATGAGTAGAGAGGAGACCACCCAGGAAGTCTGGACAAGGGGTCTG
GCATGAGCTCTGGAGAAGATATATTTGAGGAACATGGGGTATGCTAGTTTGTGCTGCAATTGCTGTA
GAGAAGATAATTTAAATTGCATCTTAGAAGACGCCCTGAGGGTGAATTTCAACTTAGGGCAATGTTT
TAGTTTGTCTTATTGGTTAAATGGATACTTGAAGCTGGATAATTTATAAGGAAAAGAGATTTATAT
GACTTACAGTTCTGCAGGCTGTACAAGAAACATGGCACCAGCATCTGCTTCTCCCGGCTGCTCCAC
TCATGGTGGAAAGGTGAAGGGGAGCCGGATGTGCAGAGATCATATGGCAAGAGAGGAAGCAAGAGAGCGA
GGGAGAAGGTGCCAGGCTCTTTTTAAATAACCGGCTCTTGGGGAACATAAGATTGAGAAGTCTTGC
TTCTCCTCCCCAGCACACCCACCCAGGACGGCATTAAATGTATTCATGAGGGGTCTTCCCCCATG
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
    
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**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_002759.4](#)

**Summary:** The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

**Locus ID:** 5610

**MW:** 77.2