

## Product datasheet for **SC211140**

### PKA R2 (PRKAR2A) (NM\_004157) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	PKA R2 (PRKAR2A) (NM_004157) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PRKAR2A
Synonyms:	PKR2; PRKAR2
ACCN:	NM_004157
Insert Size:	2000 bp



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**Insert Sequence:**

>SC211140 3'UTR clone of NM\_004157

The sequence shown below is from the reference sequence of NM\_004157. 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
AGCGTGGATCTGGGCAACCTCGGGCAGTAGGTGTGCCACACCCAGAGCCTTCTTAGTGTGACACAAA
ACCTTCTGGTTCAGCCACAGAACACATACAGAAAACAGACATGACAGAACTGTTCTCGCCGTTGCCGCCA
CTGCTGCCATTGCTGTGGTTATGGGCATTTAGAAAACCTGAAAGTCAGCACTAAAGGATGGGCAGAGGT
TCAACCCACACCTCCACTTTGCTTCTGAAGGCCATTCTAGACCATTGTAAGATTACTCCAACCC
AGTTTTTATATCTTTGGTTCAAACGGCATGTCTCTCAACAATTTAAGTGCCTGATACAAAGTCCAAA
GTATAACATGCTCTTCTCTCTGCTACTCTTGTCTTTGGAAGTTACCACAGGGTCTGCAGAA
ACCTGTTGTATACTGTAGACACTCTCTAATGGTTCTCAAAGGAGGAAATGTAGCCTTCAGTCTCTCTCA
TTTGTCTTTGAGGAAGTCCACATTTGTTACAGTTGCAGCCTTTGGTTTTACAGTGGGAAATGGTGGT
GGATGATATGGACATATGTAGCCAGTGGCATTGTAATTTCTGTGACAGCTGCACACATTACAGCTGT
CTCCAAACCCACAGTGATGCTTAGGGAAAGACCCTGCTCAGGACCAGCAGGTCAGCACCCAGAGCAG
ACTGATAGGTCCGTGGGACCCATGTTAGAGCAGAAAATTTGGGCTCAGCACATTTTACTGTTAGTAGAG
AGCCAGGAAACGTTTTCTGGGTTGGGGATTTGTGGGATTTTTAATTTTTTAGTAGGTTTTGTTAA
CCTCTGTGCAGTTGTATGAATGAATTGCTATACATTTATAAGGAGCCAGGGTCTGGAGGGTTGCTATC
ACTTTGTCCAGCCAAATACCTTCTGGGCAACTCCTACCATTTGTTGCAGTTGCCTCTACTAGCTGA
TGGCAGTATGCTGGAAAGAGGTTGTAATAAAGAGAGTTCTTTCCTTCTACTCCAGAGTTGTTGTGA
GCTTTGCCATTGAACCGATCAATTTTTAACTCTTTAAAGAAGCAGCAGCTATTTTTTGAATTAAG
AAAATTTCCAGGCCAGGCTCAATGGCTCATGCCTATAATTGTAGTGCTTTGGGAGGCTGAGCTGGGAGG
ATCGCTTAAGACCAGCCTAGGCAACAGAGTGAGATCCTGTCTCTACAAAAACAAAAATTTTTTTTTGT
TTTTTTTTGAGACGGAGTTTCGCTCTTGTGCCCAGGCTGGAGTGCAATGGTGGGCTTGGCTCACC
GCAACCTCCGCTCCAGATTAAGTGATTCTCTGCCTCAACCTCCTGAGTAGCTGGGATTACAGGCA
TGCGCCACCATGCCGGCGAATTTGTATTTTTAATAGAGACAGGGTTTCTGTGTTGGTCAGGCTGG
TCTCAAACCTCCAACTCAGGTGATCCGCCACCTCAGCCTCTCAGAGTGTGGGATTACAGATGTGAG
CCACTGCACCTGGCAAAAAAAAAATTTTTTTTTAATTTGTGAGGTGGTGTGATGCATGCATGTAGTCCC
AAATACTTAGGAGGCTGAGGTGGAAGGATCACTTGAAGCCAGGAGTCAAGGCAACAGTGTGATGAT
CATGCCACTGCACTCCAGTCTGGGTGACACAGTGAGACCCTGTCTTAAAAAAAAAAAAAGAAAGAAA
AAAAATTTCTTTAGGTAATTTCACTTGACATATTCATGTATATGGAGTTTGTGAGTGTGACTCAGGC
ATTTACCTAAAGATCAAATCTGTTTTCAAAAATTTGGCATTGGCCAGGCACGGTACCCACACCTGTAA
TCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCAGGAGTCAAGGTTCAAGACCAGCCTGGCCAAACA
TAGTGAAACCCGCTCTACTAAAAATACAAAAAATAGCTGGGCATGGTGGTGGGCGCCTGTAATCC
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGATTTTCGATTCACCGCCGCTTCTATGAAAGG
    
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**Restriction Sites:**

Sgfl-Mlul

**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\\_004157.4](#)

**Summary:**

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). [provided by RefSeq, Jul 2008]

**Locus ID:**

5576

**MW:**

74.3