

## Product datasheet for **SC117213**

### **PRKRIR (THAP12) (NM\_004705) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PRKRIR (THAP12) (NM_004705) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKRIR
Synonyms:	DAP4; P52rIPK; PRKRIR; THAP0
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM\_004705, the custom clone sequence may differ by one or more nucleotides

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ATGCCGAACTTCTGCGCTGCCCCCAACTGCACGCGGAAGAGCACGCAGTCCGACTTGGCCTTCTTCAGGT
TCCCGCGGGACCCTGCCAGATGCCAGAAGTGGTGGAGAAGTGTAGGAGAGCAGACTTAGAAGATAAAAC
ACCTGATCAGCTAAATAAACATTATCGATTATGTGCCAAACATTTTGAGACCTCTATGATCTGTAGAAGT
AGTCCTTATAGGACAGTTCTTCGAGATAATGCAATACCAACAATATTTGATCTTACCAGTCAATTTGAACA
ACCCACATAGTAGACACAGAAAACGAATAAAAGAACTGAGTGAAGATGAAATCAGGACACTGAAACAGAA
AAAAATTGATGAAACTTCTGAGCAGGAACAAAACATAAAGAAACCAACAATAGCAATGCTCAGAACCCC
AGCGAAGAAGAGGGTGAAGGGCAAGATGAGGACATTTTACCTCTAACCCCTGAAGAGAAGGAAAACAAAG
AATACCTAAAATCTATTTGAAATCTTGATTCTGATGGGAAAGCAAACATACTCTGGATGGACATGA
GGCTGATGAAATCCCAGAAGGTCTTTACTCCAGATAACTTTCAGGCACTGCTGGAGTGTGGATAAAT
TCTGGTGAAGAGTTCTGAGAAAGCGGTTTGGACAACAGCAGTTAACACGTTGTTTTGTTCAAAAACAC
AGCAGAGGCAGATGCTAGAGATCTGTGAGAGCTGTATTCGAGAAGAACTCTCAGGGAAGTGAGAGACTC
ACACTTCTTTCCATTACTACTGACGATGTAGTGGACATAGCAGGGGAAGAGCACCTACCTGTGTTGGTG
AGGTTTGTGATGAATCTCATAACCTAAGAGAGGAATTTATAGGCTTCCCTGCCTTATGAAGCCGATGCAG
AAATTTTGGCTGTGAAATTTCACTATGATAACTGAGAAGTGGGGATTAATATGGAGTATTGTCGTGG
CCAGGCTTACATTGTCTCTAGTGGATTTCTTCCAAAAAGAAAGTTGTTGCTTCTAGACTTTTAGAGAAA
TATCCCAAGCTATCTACACACTCTGCTCTTCTGTGCCTTAAATATGTGGTTGGCAAAATCAGTACCTG
TTATGGGAGTATCTGTTGCATTAGGAACAATTGAGGAAGTTTGTCTTTTTTCCATCGATCACCACAACT
GCTTTTAGAACTTGACAACGTAATTTCTGTTCTTTTTCAGAACAGTAAAGAAAGGGTAAAGAAGTGAAG
GAAATCTGCCATTCTCAGTGGACAGGCAGGCATGATGCTTTTGAATTTTGTGGAAGTCTGCAAGCAC
TTGTTTTATGTTTAGATGGTATAAATAGTGACACAAATATTAGATGGAATAACTATATAGCTGGCCGAGC
ATTTGACTCTGCAGTGCAGTGTGAGATTTGATTTTCTTGTACTATTGTTGTTCTTAAAAATGCCTA
TCTTTTACAAGAGCCTTTGGAAAAACCTCCAGGGGCAAACCTCTGATGTCTTCTTGGCCGGTGTAGT
TGACTGCAGTACTGCATTCACTCAACGAAGTGTGAAAAATATTGAAGTTTATCATGAATTTTGGTTTGA
GGAAGCCACAAATTTGGCAACCAAACCTTGATATCAAATGAAACTCCCTGGGAAATTCGCAGAGCTCAC
CAGGGTAACTTGAATCTCAGCTAACCTCTGAGAGTACTATAAAGAAACCCTAAGTGTCCCAACAGTGG
AGCACATTATTCAGGAACCTAAAGATATATTCTCAGAACAGCACCTCAAAGCTCTTAAATGCTTATCTCT
GGTACCCTCAGTCATGGGACAACTCAAATCAATACGTCGGAGGAACACCATGCTGACATGTATAGAAGT
GACTTACCAATCCTGACACGCTGTGAGCTGAGCTTATTGTTGGAGAATCAAATGGAAACACAGGGGGA
AAGATATAGAGCTTCCGTCCACCATCTATGAAGCCCTCCACCTGCCTGACATCAAGTTTTTCTAATGT
GTATGCATTGCTGAAGTCTGTGTATTCTTCTGTGATGAAGTTGAGAATGAGCGGTATGAAATGGA
CGAAAGCGTCTTAAAGCATATTTGAGGAACACTTTGACAGACAAAGGTCAAGTAACTTGGCTTTGCTTA
ACATAAATTTTGATATAAAACACGACCTGGATTTAATGGTGGACACATATATTAACCTCTATACAAGTAA
GTCAGAGCTTCTACAGATAATTCGAAACTGTGGAAAAACCTAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004705 unedited  
 GGGTAACCGTTTCATAATTTGTNATACNACNCACTNTNAGGCGCCGCGNAATTCGCACGN  
 GTCCTCCCCCGCGCCGTCCGGCCCTGCCGGCCGGCCGGCCGGCCTGGCTCCCCTCCCCGGC  
 CCCGACGGCGGGCGGACTGCCCTGAGGAGGCGGGGAGGGGAGGGCTGGGCCGGCCGGCGG  
 GCGGGCGACGATGCCGAATTCTGCGCTGCCCCAACTGCACGCGGAAGAGCACGCAGTC  
 CGACTTGGCCTTCTTCAGGTTCCCGCGGACCCTGCCAGATGCCAGAAGTGGGTGGAGAA  
 CTGTAGGAGAGCAGACTTAGAAGATAAAACACCTGATCAGCTAAATAAACATTATCGATT  
 ATGTGCCAAACATTTTGAGACCTCTATGATCTGTAGAACTATACATTTTGCAGAGGCATC  
 AGAAAACATAAGAATGATTGGGTATTTTTATTTCTCAAAATTAATTGAAGCAGATACTTG  
 TGAAGTCATTGGGAGAGTCTTATAGGACAGTTCTTCGAGATAATGCAATACCAACAATA  
 TTTGATCTTACCAGTCATTTGAACAACCCACATAGTAGACACAGAAAACGAATAAAAGAA  
 CTGAGTGAAGATGAAATCAGGACACTGAAACAGAAAAAATTGATGAACTTCTGAGCAG  
 GAACAAAAACATAAAGAAACCAACAATAGCAATGCTCAGAACCCAGCGAAGAAGAGGTG  
 AAGGGCAAGATGAGGACATTTTACCTCTAACCTTGAAGAGAAGGAAAAACAAGAATACC  
 TAAAATCTCTATTTGAAAATCTTGATTCTGGTGGGAAAGCAAAACATACCCCTGGGAG  
 GACATGAGGCTGAAGAAATCCCAGAAGTCTTTACTCCAATAACTTTTCAGGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004705 unedited  
 TTTTTTAACAAAATTCATTTTTTAAATGGAATAAACTATACAAAATTGATTTTCTT  
 ACCCAAAAAACAGCAATATTTTCCATATTTTCTAAATAAACACCAACTTATTTTGT  
 AGGTTTTCCAGGTTTTGCTTATAAATCAAGATGAGGCAGTTTATAAGAGTCATGGAAAAA  
 GACAGAGAAAAAACAGACAAATCAGTTGTGATATCCATGGCCTTTGATTCTGTCTAA  
 ACCATGAAACAGAAAGTGTCAACATATACCTGCTAAAAAGCTTAGGAAGATGTAGGCTCC  
 ACAAAAGGAATGTAACAGCAACGAAATGGGGAACAACAGCAGGCTTTTCCATTCAAACCT  
 TGTCAATTTGTTTCTTAAAGTCCAAAAAAGACAAAATCTACACTGAAATCCTTGTGGGGG  
 AGCTCACAAAGCTTTTCTCCGGTAATTTCTTGTAAGTGTCCAGTATAAATTTTAAACATAC  
 TTAAAACTCCTATTAGCCAAAGGTCAATTGTGGCTTCACTACAACATTTTATAAAATGT  
 ATTCCTTCTCCACACCTCTTCAAATATATTTCTTCAAAGAATTCATAACACCCAACA  
 AGTAAAGATCCACAGTGATAATAAATGCTATGTCTAAAATGACTTAACTGAACCAATCCC  
 AGAGTGCCTTCAACAGAGATCACGCAAAAGAACCTGGCCCTTTCAAGTCTCTCTCTGG  
 AAGAACAGTAAGTCTTCAAAGCTTGAGAGTCCAACACAGGCATTAAACAGGAAGATNA  
 TCAAGGCCTAAGGTATTCAAGGGAGGCCTTATAGCAAAGATTTTAGGGATAAAGGGCCA  
 ACTTCCCCTTACGGTTTTTTCTTCAAATAAAAAATATAAAAAAGCTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004705

**Insert Size:**

3660 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:**

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\\_004705.2](#), [NP\\_004696.2](#)

**RefSeq Size:** 3202 bp

**RefSeq ORF:** 2286 bp

**Locus ID:** 5612

**UniProt ID:** [O43422](#)

**Cytogenetics:** 11q13.5

**Domains:** DM3

**Protein Families:** Druggable Genome

**Gene Summary:** Upstream regulator of interferon-induced serine/threonine protein kinase R (PKR). May block the PKR-inhibitory function of DNAJC3, resulting in restoration of kinase activity and suppression of cell growth.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the shorter transcript.