

## Product datasheet for **RC239745**

### **PRKCBP1 (ZMYND8) (NM\_001281780) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PRKCBP1 (ZMYND8) (NM_001281780) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZMYND8
Synonyms:	PRKCBP1; PRO2893; RACK7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239745 representing NM\_001281780  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATGAAATCGAAGTATGTCCAGAATGTTATCTAGCTGCTTGCCAAAAACGAGATAACTGGTTTTGTG  
 AGCCTTGTAGCAATCCACATCCTTTGGTCTGGCCAAACTGAAGGGTTTCCATTCTGGCCTGCAAAGC  
 TCTAAGGGATAAAGACGGGCAGGTGCGATGCCCGATTCTTTGGACAACATGACAGGGCCTGGTTCCAATA  
 AATAATTGCTACCTCATGTCTAAAGAAATTCCTTTTTCTGTGAAAAAGACTAAGAGCATCTTCAACAGTG  
 CCATGCAAGAGATGGAGGTTTACGTGGAGAACATCCGCAGGAAGTTTGGGTTTTTAATTACTCTCCATT  
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 GCCAAGATAGACAAGCAGGAGAAGTCAAGCTCAACTTTGACATGACGGCATCCCCAAGATCCTGATGA  
 GCAAGCCTGTGCTGAGTGGGGCACAGGCCGCGGATTTCTTGTGGATATGCCGCGCTCCCCATGAG  
 CACAACTCTTGTGCACACGGCTCCGACGTGGAGCAGGATGCTGAGAAGAAGGCCACGTCGAGCCAC  
 TTCAGTGCAGCGAGGAGTCCATGGACTTCTGGATAAAGACACAGCTTACCAGCTCCACCAAGACGG  
 GACAAGCAGGGAGTTTATCCGGCAGCCAAAGCCCTTCTCTCCTCAACTGTCAGCTCCTATCACGACGAA  
 AACGGACAAAACCTCCACCACGGCAGCATCCTGAATCTTAACCTGGATCGAAGCAAAGCTGAGATGGAT  
 TTGAAGGAGCTGAGCGAGTCGGTCCAGCAACAGTCCACCCTGTTCTCTCATCTCTCCCAAGCGCCAGA  
 TTCGTAGCAGGTTCCAGTGAATCTTGACAAGACCATAGAGAGTTGCAAAGCACAAATAGGCATAAATGA  
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 AAACAGGATGTTGTAGGTAAAACCCACCATCCACGACGGTGGGCAGCCATTCTCCCCGGAAACACCGG  
 TGCTCACCGCTCTTCCGCCAAACTTCCGCGGCTGGCGCCACAGCCACCACCAGCACGCTCTCCACGGT  
 CACCGTACGGCCCCGGCCCCCGCCACAGGAAGCCAGTAAAAAGCAGAGGCCGCTTTTACCGAAG  
 GAGACTGCCCCGGCCGTGACGCGGTGCTGTGGAACATCAACTGTCCAGCAGAAGGAGATCACACAGA  
 GCCCATCCACGTCCACCATCACCTGGTGACCAGCACACAGTATCGCCCTGGTACCAGCTCGGGGTC  
 CATGAGCACCTTGTGTCCTCAGTCAACGCTGACCTGCCCATCGCCACTGCCTCAGCTGATGTGCGCGCT  
 GATATTGCCAAGTAACTAGCAAATGATGGATGCAATAAAAGGAACAATGACAGAAATATAACAAGATC  
 TTTCTAAAAACTACTGGAAGCACAATAGCTGAGATTCCGAGGCTGAGGATCGAGATAGAGAAGCTCCA  
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 CGGTGGATGAGACCAAGAAGAAGCAGTGGTGCGCCAACTGCAAGAAGGAGGCCATCTTTACTGCTGTTG  
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 GGAGCTCCTCGAGCACACAATCAGCACCTTCAAGAACGGCCAGCGCTCCAAAGAGAAGGAGACGTCAGC  
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 TTAGGCTCCAACCAAGGCTCTGACCATTCCCGAGTAATAAATCCAGTTGGAGCAGCAGTATGAGAAGA  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239745 representing NM\_001281780  
 Red=Cloning site Green=Tags(s)

MNEIEVCPECYLAACQKRDNWFCEPCSNPHPLVWAKLKGFFWPAKALRDKDGQVDARFFGQHDRAWVPI  
 NNCYLMSKEIPFSVKKTKSIFNSAMQEMEYVENIRRFKGFVFNYSFRTPTPNQYQMLLDPTNPSAGT  
 AKIDKQEKVKLNFDMTASPKILMSKPVLSGGTGRRIISLSDMPRSPMSTNSVHTGSDVEQDAEKATSSH  
 FSASEESMDFLDKSTASPASTKTGQAGSLSGSPKPFSPQLSAPITTKTDKTSTTGSILNLDNRKAEMD  
 LKELSESVQQQSTPVPLISPKRQIRSRFQLNLDKTIESCKAQLGINEISEDVYTAVEHSDESEKSDSS  
 DSEYISDDEQKSKNEPEDTEDKEGCQMDKEPSAVKKPKPTNPVEIKEELKSTSPASEKADPGAVKDKAS  
 PEPEKDFSEKAKPSHPKDKLKGKDETDSPVHLGLDSDSESELVIDLGEDHSGREGRKNKKEPKESP  
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 DIAKYTSKMMDAIKGTMTEIYNLTKNTGSTIAEIRRLRIEIEKLQWLHQELSEMKNLELTMAEMRQ  
 SLEQERDLIAEVKKQLELEKQQAQVDETKKQWCANCKKEAIFYCCWNTSYCDYPCQQAHPPEHMKSC  
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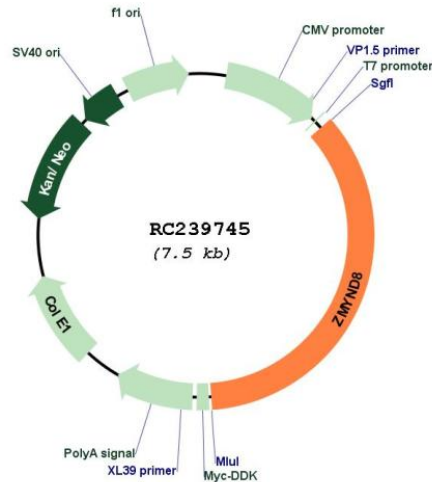
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001281780

**ORF Size:** 2676 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\\_001281780.3](#)

**RefSeq Size:** 5380 bp

**RefSeq ORF:** 2679 bp

**Locus ID:** 23613

**Cytogenetics:** 20q13.12

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 98.2 kDa

**Gene Summary:** The protein encoded by this gene is a receptor for activated C-kinase (RACK) protein. The encoded protein has been shown to bind in vitro to activated protein kinase C beta I. In addition, this protein is a cutaneous T-cell lymphoma-associated antigen. Finally, the protein contains a bromodomain and two zinc fingers, and is thought to be a transcriptional regulator. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]