

Product datasheet for **RN209032**

Prkra (NM_001024780) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prkra (NM_001024780) Rat Untagged Clone
Tag: Tag Free
Symbol: Prkra
Synonyms: RAX
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209032 representing NM_001024780
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCACAGCAGGCATCGTGCCGAGGCCCGCCGCTGCAGCGCGAGGACAGCGGGACCTTCAGTTTGG
 GCAAGATGATAACAGCTAAGCCTGGGAAAACACCGATTTCAGGTATTGCACGAGTACGGCAGCAAGACCAA
 GAACATCCAGTTTATGAATGTGAAAGATCCGATGTGCAAGTACACGTGCCCACTTTCACCTTCAGAGTA
 ACCGTTGGTGACATAACTTGACAGGTGAAGGGACGAGTAAGAAGCTGGCGAAGCACAGAGCTGCAGAGG
 CTGCCATAAACATTTTGAAGCCAATGCAAGTATTTGCTTTGCAGTTCCTGACCCCTTAATGCCTGATCC
 ATCCAAACAGCCAAAGAACCAGCTGAATCCAATTGGCTCATTACAGGAATTAGCAATTCACCATGGCTGG
 CGGCTTCTGAATATACCCTTTCCAGGAAGGAGGACCCGCTCATAAGAGAGAATATACCACGATTTGCA
 GGCTAGAGTCATTCATGGAACTGGAAAGGGGCATCAAAAAACAAGCAAGAGAAAACGCTGCTGAGAA
 ATTCTCGCCAAATTTAGTAATTTTCTCCAGAGAACCACATTTCTCTAACGAATGTGGTCGGACATTCC
 CTGGGATGCACTTGGCACTCCTTGAGGAATCCCTGGTAAAAAGATCAACCTTCTGAAAAGGAGCCTCC
 TCAGTCTGCCAACACAGACTACATCCAGCTGCTCAGTGAGATAGCCAAAGAGCAAGGCTTCAGTATAAC
 ATACTTGGATATAGAGGAGCTGAGTGCCAACGGGCAATCAGTGTCTCGCAGAGCTGTCCACCAAGTCCC
 ATCACCGTGTGTCATGGCTCAGGCATCTCCTGTGGCAATGCCAGAGTGACGCCGCTCACAAATGCCCTGC
 AGTATCTAAAGATAATAGCAGAAAGAAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001024780
Insert Size: 942 bp



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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_001024780.1</u> , <u>NP_001019951.1</u>
RefSeq Size:	1589 bp
RefSeq ORF:	942 bp
Locus ID:	311130
UniProt ID:	<u>Q4V8C7</u>
Cytogenetics:	3q24
Gene Summary:	Activates EIF2AK2/PKR in the absence of double-stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2-alpha and inhibition of translation and induction of apoptosis. Required for siRNA production by DICER1 and for subsequent siRNA-mediated post-transcriptional gene silencing. Does not seem to be required for processing of pre-miRNA to miRNA by DICER1. Promotes UBC9-p53/TP53 association, sumoylation and phosphorylation of p53/TP53 at 'Lys-386' at 'Ser-392' respectively and enhances its activity in a EIF2AK2/PKR-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]