

Product datasheet for MR204457

Prkra (NM_011871) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prkra (NM_011871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkra
Synonyms:	AV120107; lear; Pact; PRK; RAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204457 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCATAGCAGGCATCGTGCCGAGGCCCGCCGCTGCAGCGGAGGACAGCGGGACCTTCAGTTTGG
GCAAGATGATAACAGCTAAGCCTGGGAAAACACCGATTTCAGGTATTGCACGAGTACGGCATGAAGACCAA
GAACATCCAGTTTATGAATGTGAAAGATCCGATGTGCAAGTACACGTGCCCACTTTCACCTTCAGAGTA
ACCGTTGGTGACATAACTTGCACAGGTGAAGGTACAAGTAAAGAGCTGGCGAAGCACAGAGCTGCGGAGG
CCGCCATAAACATTTTGAAGCCAATGCAAGTATTTGCTTTCAGTTCTGACCCCTTAATGCCTGATCC
ATCCAAACAGCCGAAGAACCAGCTGAATCCAATTGGCTCATTACAGGAATTAGCAATTCACCATGGCTGG
CGACTTCTGAATATACCTTTCCAGGAAGGAGGACCGGCTCATAAGAGGGAATACACCACGATCTGCA
GGCTTGAATCATTATGGAACTGGAAAGGGGCATCAAAAAACAAGCCAAGAGAAAATGCTGCTGAGAA
ATTTCTCGCCAAGTTTAGTAATTTTCTCCAGAGAACCACATTTCTAACGAACGTGGTTGGACATTCC
CTAGGATGCACTTGGCACTCCTTGGGAATCCCTGGTGAAGATCAACCTCTGAAAAGGAGCCTCC
TCAGTCTCCCGAACACAGACTACATCCAGCTGCTTAGTGAGATTGCCAGCGAGCAAGGCTTTAACATAAC
GTATTTGGATATAGAGGAGCTGAGTGCCAACGGACAGTATCAGTGTCTCGCAGAGCTGTCCACCAGTCCT
ATCACCGTGTGTACGGCTCAGGCATCTCCTGTGGCAATGCACAGAGTGACGCTGCTCACAATGCTCTGC
AGTATTTAAAGATAATAGCAGAAAAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204457 protein sequence
Red=Cloning site Green=Tags(s)

MSHSRHRAEAPPLQREDSGTFSLGKMITAKPGKTPIQVLHEYGMKTKNIPVYECERSDVQVHVPTFFTRV
 TVGDITCTGEGTSKKLAKHRAEAAINILKANASICFVDPDPLMPDPSKQPKNQLNPIGSLQELAIHHGW
 RLPEYTLSEQEGPAHKREYTTICRLESFMETGKGASKKQAKRNAAEKFLAKFSNISPENHISLTVVVGHS
 LGCTWHSLRNSPGEKINLLKRSLLSLPNTDYIQLLSEIASEQGFNITYLDIEELSANGQYQCLAELSTSP
 ITVCHGSGISCGNAQSDAAHNALQYLKIIAERK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011871

ORF Size: 942 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_011871.3](#)

RefSeq Size: 1554 bp

RefSeq ORF: 942 bp

Locus ID: 23992

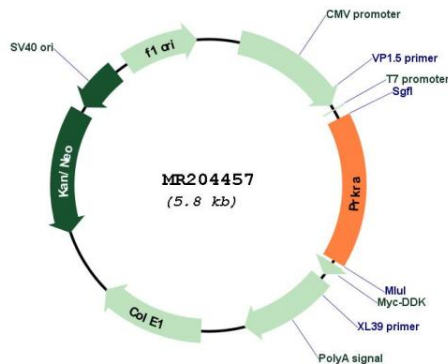
UniProt ID: [Q9WTX2](#)

Cytogenetics: 2 C3

MW: 34.4 kDa

Gene Summary: 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 (By similarity). 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. Promotes UBC9-p53/TP53 association and sumoylation and phosphorylation of p53/TP53 at 'Lys-386' at 'Ser-392' respectively and enhances its activity in a EIF2AK2/PKR-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204457