

## Product datasheet for MC203800

### Prkra (NM\_011871) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prkra (NM\_011871) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Prkra  
**Synonyms:** AV120107; lear; Pact; PRK; RAX  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC011311  
 CCTTAGCTGGAGGGAGGCAGGCAGCGATTTCGAGGGGGCGTCCAAGCGGCAGCGCGGGCAGCCTCTCTCGG  
 GAACTGGCCGACGTGGAGAGGGAGGACCCAGATCCACACTTCTCTTGATTGCTGTGGCCAGCCGTCCTT  
 CTCGCCATGTCCCATAGCAGGCATCGTGCCGAGGCCCGCCGCTGCAGCGCGAGGACAGCGGGACCTTCA  
 GTTTGGGCAAGATGATAACAGCTAAGCCTGGGAAAACACCGATTAGGTATTGCACGAGTACGGCATGAA  
 GACCAAGAACATTCCAGTTTATGAATGTGAAAGATCCGATGTGCAAGTACACGTGCCACTTTACCTTC  
 AGAGTAACCGTTGGTGACATAACTTGCACAGGTGAAGGTACAAGTAAGAAGCTGGCGAAGCACAGAGCTG  
 CGGAGGCCGCCATAAACATTTTGAAGCCAATGCAAGTATTTGCTTTGCAGTTCTTGACCCCTTAATGCC  
 TGATCCATCCAAACAGCCGAAGAACCAGCTGAATCCAATTGGCTCATTACAGGAATTAGCAATTCACCAT  
 GGCTGGCGACTTCTGAATATACCCTTTCCAGGAAGGAGGACCGGCTCATAAGAGGGAATACACCACGA  
 TCTGCAGGCTTGAATCATTTCATGAAAAGTGGAAAAGGGGCATCAAAAAACAAGCCAAGAGAAATGCTGC  
 TGAGAAATTTCTCGCAAGTTTAGTAATTTTCTCCAGAGAACCACATTTCTCTAACGAACGTGGTTGGA  
 CATTCCCTAGGATGCACTTGGCACTCCTTGAGGAATCCCTGGTGAGAAGATCAACCTCCTGAAAAGGA  
 GCCTCCTCAGTCTCCCGAACACAGACTACATCCAGCTGCTTAGTGAGATTGCCAGCGAGCAAGGCTTTAA  
 CATAACGTATTTGGATATAGAGGAGCTGAGTGCCAACGGACAGTATCAGTGTCTCGCAGAGCTGTCCACC  
 AGTCTATCACCGTGTGTACGGCTCAGGCATCTCCTGTGGCAATGCACAGAGTGACGCTGCTCACAAATG  
 CTCTGCAGTATTTAAAGATAATAGCAGAAAGAAAGTAGGCTTGGAGCGACTTAGGAAATCTTTCTGCGGC  
 GCAAAGAAGTTTCCCTCGCCCTTCTTCCAAGCAAAATGTTACTGTAATGTATGTCTGTGTGTCCTTTT  
 CAAATCTTTTCAAGTATCGTCAACTTTCCAGATTTAAATGTCTCCTGGTAGGTTATTAAGCTCTTTTAA  
 TGGCTTCAACTTTGTATTGGTATATCGTGTATTAACCTTTGTACCACAAGGCTGAGTGTGGTTTTCATT  
 TTACAGGGTCAGACGCATAGGTTGAACATGCATGTTTGAAGTGTAAACGGTAAAGAGATAAAACAGCCTTAC  
 TGGTGCTGAAACTCTTTTGTGCAAAGCTTTGTGGAGTGGATTCTGAAGAGCCCTTTAGACTAGAGTGT  
 GAGGCTTGTGATGAATGTCATTGCTAAATTTTCAGGGAACGTGGTTGGTTTGTATGTATTTGAAACCATG  
 GAATAAAGAGCTGTTCTTATAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI



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<b>ACCN:</b>	NM_011871
<b>Insert Size:</b>	942 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC011311</a> , <a href="#">AAH11311</a>
<b>RefSeq Size:</b>	1575 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	23992
<b>UniProt ID:</b>	<a href="#">Q9WTX2</a>
<b>Cytogenetics:</b>	2 C3
<b>Gene Summary:</b>	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]