

## Product datasheet for **MC207359**

### Prkx (NM\_016979) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prkx (NM\_016979) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Prkx  
**Synonyms:** Pkare; PKX1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207359 representing NM\_016979  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCCGCCGCTGGTGCCGCGGCGACCGTAAAAGATCCAGACCATGACCCCGTGAAGACCAAGGTCT  
CGGCGCCCGCCGCGGACCCAAACCCAGGACATCGTCACAGAAGGCGGGCACTCGTTACAAGATTGGGA  
CACCATAGCCACCGTGGGCACTGGGACCTTTGGCCGTGTAACCTGGTGAAGGAGAAGACAGGCAGGCAA  
TACTGTGCCTTGAAGATTATGAGTATCCAGATGTCATCCGCCTGAAACAGGAACAGCATGTGCAGAATG  
AGAAAGCAGTCCCTGAAGGAAATAAACCTCCCTTCTCATTAAACTGCTTTGGACAGGCCATGACAAACCG  
CTTCTATACATGTTGATGGAGTTCGTGCCTGGTGGTGGAGCTCTTACCTACCTGCGTAATCGTGGCCGA  
TTCTCCTCAGTTGCTCAGTCTTCTACGCCACAGAGATTGTGTGCCATAGAATATCTACACTCAAAGG  
AAATCGTATACAGGGACCTGAAGCCTGAAAACATCCTTCTAGACAGGGAAGGACATATAAACTGACAGA  
CTTCGGCTTCGCCAAGAACTGGTGGATAGGACATGGACTCTCTGTGGGACACCAGAATATCTCGCCCCA  
GAAGTCATTAGAGCAAAGGTCATGGAAGGGCTGTGGACTGGTGGGCACTGGGCATTCTTATATTCGAGA  
TGCTGTCTGGGTTTCCCCATTTTCGATGACAACCCGTTGGGATTTACCAGAAAATCCTTGCATGCAA  
AATAGATTTCCCGAGACAATTGGATTTACCTCTAAGGACCTCATCAAGAAGCTGCTGGTGGTGGACAGG  
ACCCGACGCCTAGGCAACATGAAGAATGGGCGAGAAGACATCAAGCGGCACCGGTGGTTCGAGGTGTGG  
AGTGGGAATCTGTGCCACAAAGAAAAGTGAAGCCACCCATTGTGCCCAAGTTATCGGGTGTGGTGCAT  
CTCCAACCTTGGACTTATCCAGAGAGTGAATTGGACAAGACACCTTCTGTATCTGACAAAGACCTGGAA  
ACATTCAAAAATTTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_016979



<b>Insert Size:</b>	1068 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>	<u>NM_016979.1, NP_058675.1</u>
<b>RefSeq Size:</b>	3217 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	19108
<b>UniProt ID:</b>	<u>Q922R0</u>
<b>Cytogenetics:</b>	X B
<b>Gene Summary:</b>	Serine/threonine protein kinase regulated by and mediating cAMP signaling in cells. Acts through phosphorylation of downstream targets that may include CREB, SMAD6 and PKD1 and has multiple functions in cellular differentiation and epithelial morphogenesis. Regulates myeloid cell differentiation through SMAD6 phosphorylation. Involved in nephrogenesis by stimulating renal epithelial cell migration and tubulogenesis. Also involved in angiogenesis through stimulation of endothelial cell proliferation, migration and vascular-like structure formation.[UniProtKB/Swiss-Prot Function]