

Product datasheet for SC116959

PRKX (NM_005044) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PRKX (NM_005044) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PRKX |
| Synonyms: | PKX1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene ORF sequence for NM_005044 edited
 ATGGAGGCGCCCGGGCTGGCCCAGGCGGCGCGGAGAGCGACTCCCAGGTTGGCG
 GAGGAGACCCCGACGGGGCGCCCGCGCTCTGCCAGCCGTGAGGCGCTGTCGCCGGAG
 CCGCCTGTGTACAGCCTGCAGGACTTTGACACGCTGGCCACCGTGGGCACTGGGACTTTC
 GGGCGGGTGCACCTGGTGAAGGAGAAGACAGCCAAGCATTCTTCGCCCTCAAGGTGATG
 AGCATTCTGACGTCATCCGCCTAAAGCAGGAGCAACACGTACACAATGAGAAGTCTGTC
 CTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGTTCTGGACGTGGCATGACGAGCGC
 TTCCTCTACATGCTCATGGAGTACGTGCCGGGCGGCGAGCTCTTCAGCTACCTGCGCAAC
 CGGGGGCGCTTCTCCAGCACCACGGGGCTTTCTACTCTGCAGAGATCATCTGTGCCATC
 GAGTACCTGCACTCCAAAGAGATCGTCTACAGGGACTTGAAGCCAGAGAACATCCTGCTG
 GATAGGGATGGCCACATTAAGCTCACGGACTTTGGGTTCCGCAAGAAGCTGGTAGACAGG
 ACTTGGACCCTCTGTGGAACACCCGAGTACCTAGCCCCGAAAGTATTTCAGAGCAAGGGC
 CACGGAAGGGCCGTGGACTGGTGGGCCCTCGGCATCCTGATATTCGAGATGCTTTCGGGG
 TTTCTCCGTTTTTTGATGACAACCCGTTTGGCATTATCAGAAAATTCTTGCAGGCAAA
 ATAGATTTCCCCAGACATTTGGATTTCCATGTAAGAACCTCATTAAAGAACTGCTCGTG
 GTTACAGAACAAGGCGATTAGGAAACATGAAGAACGGGGCGAATGATGTGAAGCATCAT
 CGGTGGTCCGCTCCGTGGACTGGGAAGCTGTTCCGCAGAGAAAAGTGAAGCCTCCCATC
 GTGCCAAAGATAGCTGGTGACGGCGACACTTCCAATTTCGAAAATTACCTGAGAATGAC
 TGGGACACAGCCGCGCCCGTCCCGCAGAAGGATTTAGAAATCTTCAAGAATTTCTGA



[View online »](#)

| | |
|-------------------------------------|--|
| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_005044 unedited TTAACGTACAAATATTTGTATACGACTCCTATAGGGCGGCCGCGATATCGCACGAGGCC CACAGCGCGCACGCGGCTACCGAGCTGGAGGAGGCGGGCGCGGAGACCCGGAATGCGC AGGGCCCCCGCTCGCCCCCCCCAGCCCGGGCCGCGGCCCGCCCTTCCCCGAGTCGT CCGCACTCGGTGCCCGCCCCAGGCGCGGCTGCTCCCACTCGGGCCGTTGCTGCT TGTGCCGTGAGCGCCGCCAGCCATTGTCCCGTCGCTCCGTAGCCCGCGCCGACCGCG CACCAGGAGCGAGAGCGCGCATGGGGAGCCTCTGTTGATGCCCGCCGCGCCGCCCTC CGAGGCTGCGTCCCGGAAGCCCGGCTCCCCGAGCGCTCCGCGCTGGCCCGGTGCCCCGG ACCTGAGTGCCTCCCATGGAGGCGCCGGCTGGCCAGGCGCCGCGCGGAGAGCGA CTCCCGCAAGGTGGCGGAGGAGACCCCGACGGGGCGCCGCGCTCTGCCCCAGCCCTGA GGCGTGTGCGCCGAGCCGCTGTGTACAGCTGCAGGACTTTGACACGCTGGCCACCGT GGGCACTGGGACTTTGCGGCGGGTGACCTGGTGAAGGGAGAGACAGCCAAGCATTCTT CGCCCTCAAGGTGATGAGCATTCTGACGTCATCCGCTAAAGCAGGAGCAACACGTACA CAATGAGAAGTCTGTCTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGNTCTGGAC GTGGCATGACGAGCGTTTCTCTACATGCTCATGGAGTACGTGCCGGGCGCGAGCTCTT CAGCTACCTGCGCAACGGGGGGCTTCTCCAGCACACGGGGCTTCTACTCTGCAGA GATCATCTGTGCCATCGAGTACCTGCACT</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_005044 unedited CGAGGCCGCAATTTANATCGAGTTTTTTTTTTTTTTTTTTTTGGGCAGGGTCTCACTCTGTC ACCCAGGCTGGAATGCAGTGGTGTGATCTCGGATCACTGCGGCCCTGGACCTCCCCAGGCT CAAGTGATCCTCTCATCTCAGCCTCTGAGTAGCTGAGACTACACTCACGTGCCACCATG CCGGCTAATTTTTTTGTATTTTGTAGAGATGAGGTCTCACCACGTTTCCAGACTGGTC TCCAACCTCTGGGCTCAAGCAATCCACCACCTCAGCCTCCCAAAGTGCTGGGACTATAG GAACAAGCCACTGCATCCAGCTCAGATGAAATTTTTGAATGTGTACAGAAGGTTTTTTTT AAATACAGTACATTCTCCAACAACCTCAATGTCAATTGTAGATTCTTGAATAAATTCGC TCCCATATCTTCCCCTCTTTGTTTCTTCTTTAAAGTCTCAAGTTACCAGGTAAGAAGCA CTAAGATACTGAAGGTAGACCTCCCCATGATATTTTCTTCCCCAAAACATAAAATGCA TGTGAGATGATTTTTTTAATGCATGCCACATACCCTTTAGATGTTGCCCGGAGAAGAG ATTTTTGAAAAACAAATTGAAAAATAAAATATAGGGCTCTGTAAGTATGAACATTT ACATCACTGCACAATTTTTGTGCATCTGCCATAATGACTTCTATATATACCCCGGGCTAC ACACACACACCCACTCACACACACAATTTGTGGGTATAACCGAACAAAGTCAGGTCAA AATTATAAACCTTAAGTCTATGACAAAAACCAGAAATCCCAGGAGGGACCCACCCTAA GGGATAGATAAAATTTACAACCCACCATTTTCAAACCTCTACAGGGGAAATCCAGT CCTAAAAATGCCAGTCCCAGAAATCACTGGGGCTCAACTATTTTAAAN</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005044 |
| Insert Size: | 2710 bp |
| 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:

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_005044.1](#), [NP_005035.1](#)

RefSeq Size: 6034 bp

RefSeq ORF: 1077 bp

Locus ID: 5613

UniProt ID: [P51817](#)

Cytogenetics: Xp22.33

Domains: pkinase, S_TK_X, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Apoptosis, Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Hedgehog signaling pathway, Insulin signaling pathway, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Olfactory transduction, Oocyte meiosis, Prion diseases, Progesterone-mediated oocyte maturation, Taste transduction, Vascular smooth muscle contraction, Vibrio cholerae infection, Wnt signaling pathway

Gene Summary: This gene encodes a serine threonine protein kinase that has similarity to the catalytic subunit of cyclic AMP dependent protein kinases. The encoded protein is developmentally regulated and may be involved in renal epithelial morphogenesis. This protein may also be involved in macrophage and granulocyte maturation. Abnormal recombination between this gene and a related pseudogene on chromosome Y is a frequent cause of sex reversal disorder in XX males and XY females. Pseudogenes of this gene are found on chromosomes X, 15 and Y. [provided by RefSeq, Feb 2010]