

Product datasheet for **SC323612**

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-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323612 sequence for NM_005044 edited (data generated by NextGen Sequencing)

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ATGGAGGCGCCCGGGCTGGCCCAGGCGGGCGGCGGAGAGCGACTCCCAGGTTGGCG
GAGGAGACCCCGACGGGGCGCCCGCGCTCTGCCCCAGCCCTGAGGCGCTGTCGCCGGAG
CCGCCTGTGTACAGCCTGCAGGACTTTGACACGCTGGCCACCGTGGGCACTGGGACTTTC
GGGCGGGTGCACCTGGTGAAGGAGAAGACAGCCAAGCATTCTTCGCCCTCATGGTGATG
AGCATTCCCGACGTCATCCGCCTAAAGCAGGAGCAACACGTACACAATGAGAAGTCTGTC
CTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGTTCTGGACGTGGCATGACGAGCGC
TTCCTCTACATGCTCATGGAGTACGTGCCGGGCGGCGAGCTCTTCAGCTACCTGCGCAAC
CGGGGGCGCTTCTCCAGCACCGGGGCTTTCTACTCTGCAGAGATCATCTGTGCCATC
GAGTACCTGCACTCCAAAGAGATCGTCTACAGGGACTTGAAGCCAGAGAACATCCTGCTG
GATAGGGATGGCCACATTAAGCTCACGGACTTTGGGTTCCGCAAGAAGCTGGTAGACAGG
ACTTGGACCTCTGTGGAACACCCGAGTACCTAGCCCCGAAAGTATTTCAGAGCAAGGGC
CACGGAAGGGCCGTGGACTGGTGGGCCCTCGGCATCCTGATATTCGAGATGCTTTCCGGG
TTTCTCCGTTTTTTGATGACAACCCGTTTGGCATTATCAGAAAATTCTTGCAGGCAAA
ATAGATTTCCCAGACATTTGGATTTCCATGTAAGAACCTCATTAAAGAACTGCTCGTG
GTTGACAGAACAAGGCGATTAGGAAACATGAAGAACGGGGCGAATGATGTGAAGCATCAT
CGGTGGTCCGCTCCGTGGACTGGGAAGCTGTTCCGAGAGAAAAGTGAAGCCTCCCATC
GTGCCCCAAGATAGCTGGTGACGGCGACACTTCCAACCTCGAAACTTACCCTGAGAATGAC
TGGGACACAGCCCGCCCGTGCCGAGAAAGGATTTAGAAATCTTCAAGAATTTCTGA

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Clone variation with respect to NM_005044.4
177 g=>t;233 a=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_005044 unedited CCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCAACAGCGCGCA CGCGGCTACCGAGCTGGAGGAGGCGGGGCGGAGACCCGGAATGCGCAGGGCCCCCGCTCGCCCCC CCAGCCCCGGCCGGCCCCGCCTTCCCCGAGTCGTCCCGACTCGGTGCCGCCCCCGAGGCCGGC GGCTGCTCCACTCGGGCCGTTGCTGCTTTGTGCCGTGAGCGCCGCCAGCCATTGTCCCGTCGCTTC CGTCAGCCCGCGCCGAACCGCGCACAGGAAGGCCAAGAACC GCCCATGGGGAGGCCCTCGGTGGAT GCGGCGGCGGGCGCCCTTCGAGAGGCTGCTTCCGGGGAGGCGGGTTCCCAAGCCCTCGGGCTTGCC GGGGGCCCGGACTGGGATGGCGTCCCCAGGGGGGCCCGGGCTGGCCAGGGGGCGGGGGGAGA CCAACCCCGCAGGGGGGGGAAGGAAACCCAAAGGGGGCCCCGCCCTTGTGCCAACCCGAGGGGCC TTTCCCGGACCCCTGGGCCCCCGAAAATTTGACCCGGGGCCCGTGGGCAATTGACTTTTGGG GGGTCCCGCTAGGAAAAACCCCGTTTTTCCCCCTTAGGGAGAAAAAGAAG
Kinase Domain Sequence:	>SC323612 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TMKKGCMCGTGGCMTGGACTTTCGGGCGGTTGCACCTGGTGAAGGAGAAGACAGCCAAGCATTCTTCG CCCTCATGGTGATGAGCATTCCCGACGTATCCGCTAAAGCAGGAGCAACACGTACACAATGAGAAGTC TGTCTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGTTCTGGACGTGGCATGACGAGCGCTTCCTC TACATGCTCATGGAGTACGTGCCGGGCGGAGCTCTTCAGCTAC
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell . 2008 May p536-548.
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:	NM_005044.1 , NP_005035.1
RefSeq Size:	6034 bp
RefSeq ORF:	1077 bp

Locus ID:	5613
UniProt ID:	P51817
Cytogenetics:	Xp22.33
Domains:	pkinese, 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:	<p>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]</p>