

## Product datasheet for **SC323404**

### Protein kinase Y linked (PRKY) (NM\_002760) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Protein kinase Y linked (PRKY) (NM_002760) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein kinase Y linked
Synonyms:	OTTHUMP00000033227; protein kinase, Y-linked
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002760, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCGCCCGGGCCCGCCAGGCGGCCGCGCGGAGAGCAACTCCCGAGAGGTGACGGAGGATGCCG
CCGACTGGGCGCCCGCGCTCTGCCCCAGCCCCGAGGCGCGGTGCGCGGAGGCGCCTGCCTACCGCCTGCA
GGACTGCGACGCGCTGGTACCATGGGCACTGGGACGTTGCGGCGGGTGCACCTGGTGAAGGAGAAGACA
GCCAAGCATTCTTCGCCCTCAAGGTGATGAGCATTCCCGACGTCATCCGCCGGAAGCAGGAGCAGCACG
TGCACAATGAGAAGTCTGTCTGAAGGAAGTCAGCCACCCGTTCTCATCAGGCTGTTCTGGACGTGGCA
TGAGGAGCGCTTCTCTACATGCTCATGGAGTATGTGCCGGGTGGCGAGCTCTTCAGCTACCTGCGCAAC
CGGGGGCACTTCTCCAGCACACGGGGCTTTCTACTCTGCGGAGATCATCTGTGCCATTGAGTACCTGC
ACTCCAAGGAGATCGTCTACAGGATTTGAAGCCGGAGAACATCCTGCTGGATAGGGATGGTCACATCAA
GCTCACGGACTTTGGGTTTGCCAAGAAGCTGGTAGACAGGACTTGGACCTCTGTGGAACACCCGAGTAC
CTAGCCCCGAAGTCAATTCAGAGCAAGGGCCACGGAAGGGCCGTGGACTGGTGGGCCCTCGGCATCCTGA
TATTCGAGATGCTTTCGGGGTTTCTCCATTTTTGATGACAACCCGTTTGGCATTTATCAGAAAATTCT
TGCAGGCAAATAATTTCCCAGACATTTGGATTTCCATGTAAAAACGGGGCGAATGATGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_002760 unedited CCCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGAGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGCACGCGGCCACC GAGCTGGAGGAGGCGGGCGGTGAGACCGGGAATGCTTGGGGCCCCCGCCTTCTCGCAGCCATCCAGC ACTCGGTGCACGCCCCGAGGCCAGCGGCTGCTCCCTCCCGGGCTATTGCTGCTAGTGCCGTGAGCAC CGCCAGCCATTGTCTCTGTGCTCCGTGAGCCGTGCCGAGCCGCGCACCCAGAGGCGAGGGCGCGCATG GGGAGCCTCCGTTGATGCTGCCGCGCTGCCGCGCCCGCCTCCGAGCCTTGCTTCCGGGGGAGTCCGGTT TCCCAGCCGCTCGGGCTGGCCCGGCCCGGACTTGATTGCCCTCCCATGGAGGCCCGGGCGGGC CCAGGGGGCCCCGGGGAAAGCAACCTCCGAAAAGGGGACGGAAGAATGCCCCCAACGGGGCCCCC CCCCTTTTGCCCAACCCCAAAACCCCGGGCCCCGAAAACCCCTGCCTACCCCTGGGGGAAAGTGAA ACCCGGGAAACAGGGGCTGGGGCACTTTGGGGGGGACCCGGGTAAGGGAAAAACACACCTTCTC TCCCAATGGGGAAAAATTCCAAAGTCCAGGGGGCGGACGACGAGCCAAAGAA
<b>Kinase Domain Sequence:</b>	>SC323404 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSACMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGCACGCGGCCACCAGCT GGAGGAGGCGGGCGGTGAGACCGGGAATGCTTGGGGCCCCCGCCTTCTCGCAGCCATCCAGCACTCG GTGACGCCCCGAGGCCAGCGGCTGCTCCCTCCCGGGCTATT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002760
<b>Insert Size:</b>	900 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>OTI Annotation:</b>	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." <a href="#">Cell</a> . 2008 May p536-548.
<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="#">NM_002760.2</a> , <a href="#">NP_002751.1</a>
<b>RefSeq Size:</b>	7216 bp
<b>RefSeq ORF:</b>	834 bp

<b>Locus ID:</b>	5616
<b>Cytogenetics:</b>	Yp11.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene is similar to the protein kinase, X-linked gene in the pseudoautosomal region of the X chromosome. The gene is classified as a transcribed pseudogene because it has lost a coding exon that results in all transcripts being candidates for nonsense-mediated decay (NMD) and unlikely to express a protein. Abnormal recombination between this gene and a related gene on chromosome X is a frequent cause of XX males and XY females. [provided by RefSeq, Jul 2010]