

Product datasheet for **SC128011**

PTP kappa (PTPRK) (NM_002844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP kappa (PTPRK) (NM_002844) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP kappa
Synonyms:	R-PTP-kappa
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002844, the custom clone sequence may differ by one or more nucleotides

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ATGGATACGACTGCGGGCGGGCGCTGCCTGCTTTTGTGGCGCTCTTGCTCCTCTCCTTGGCCTCTCC
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CCACCAGGATCTGTATGATGACTTTGAATGGGTGCATGTTAGTGCTCAAGAGCCTCATTATCTACCACCC
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AATGTTGTCGATGTTTTCCATGCAGTAAAGACTGAGGAACAGCAAGCCAAACATGGTGGAAAGCCCGG
AGCAATACCGTTTCTGCTATGATGTAGCTTTGGAGTACCTGGAATCATCTTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002844 unedited
 NGGTCAGAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGCCTCGTGCC
 GAATTCGGCAGCAGAGGCTCCGCCGAGCATGGAGAGCTGCCGCCGCGGCCGGCCGGCAGCG
 TGGCGACGCTTTCGCCCTGAGGTAGTTTGGCGACCGGAAGAAGGAAAAAGGGCGGGCG
 GGCGGCTGTCTCTACCGTCTCACCCGCGAGGCCCGGCCGCTCCTCCGTCTGTTGAT
 TTCGCGGGGATCCCCCGGCAGCTCTTTCGAAAGCTGCTTGAAACTTCTCCAACTCGG
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 GCCCATGAATATCANGTAATATTTGAAAGCTGAGTCTCAGGAGGAGAAGTGGGTATATT
 GCCATTGATGACATCCCAGTACCTGAGTATCCCTGTGATAAATCTCCTCATTTCTCCGT
 CTAGGGGATGGTAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002844 unedited
 AGATAAACGTACTTTAATGACACGAGTACTAAACATTACAACGAGTAACATGCTCATATT
 TATCACATTTAACTTACCACCTAAAAAACAATGTTTTAAGGGGTGTTACTTT
 GAAAAGCATTATACCGTCATACTCATTAAACAGAGAGAAAATACACTCTTAGGGAACTT
 TTTTTTTAATGATAATGCATACTGTAGAGAAATGATATTTAATTAACAGATAAACATATT
 TCAAGTGTAGTACATTTGCCTGTTCTATACCAACTCTACAAATAGGATATAGCAAAAA
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 TCGGTACAAGTGGATCATTGGGCAATCTGGACTAAAGTTATGTTGGTCCATGAAGGTGA
 TGGAAAGAGGATCTTCTGCATGCAGAGTCTGATCAGCATAACTTCGATCCATTGAT
 TCACCATGTGAGTCATCTCCTGCCGGTATTCCCATGGCATCTTTGCGTTTTTTAGCAA
 GTTTGCTCTTTTTACAATTAATATGACAACTAGGAGAAGGAGGATGAACACCAAAATTC
 CAGCACTAATTCCTGCTATTTTACCACCTCTGTCTGTCTGCTTGGCGGGATCTGGGATCA
 CTTCTGGTTCTTCTGTTGCTGCTTTTTGTAGCAATGCGTACGCACTGGGTTTTAGTTT
 CCTTCTCCACACTGCTCATCGCCTGAAATAGATGTTGTATCCTTTGCGCGGAGCCAAAG
 GATGGTCCAAAAGCCTTGGTATGTCCGATTGTCACCCACAGTGAACGGNGCATGCTCAT
 GTAGGNTTCCCGGAGGAGTTCTGCANCATAGTATACGGTGCACCCCACTCATGGCATTN
 TGGTATGTGACAGGAACCTGTAGCATTATGGCTNNCGCTCTTCTGGNTCGNNGTGGTGC
 AGTTCTTCACACATCGATAGACTGATAGACACCTTGGCTGGCTGCTACATCAGTN

Restriction Sites:

NotI-NotI

ACCN:

NM_002844

Insert Size:

3370 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_002844.2](#), [NP_002835.2](#)

RefSeq Size: 6104 bp

RefSeq ORF: 4323 bp

Locus ID: 5796

UniProt ID: [Q15262](#)

Cytogenetics: 6q22.33

Domains: Y_phosphatase, MAM, PTPc_motif, IG, FN3

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions. Expression of this gene was found to be stimulated by TGF-beta 1, which may be important for the inhibition of keratinocyte proliferation. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks two alternate in-frame exons compared to variant 3. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform c.