

Product datasheet for **SC337402**

PTP kappa (PTPRK) (NM_001291983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP kappa (PTPRK) (NM_001291983) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRK
Synonyms:	R-PTP-kappa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001291983, the custom clone sequence may differ by one or more nucleotides

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ATGATGGTCCAGGGCCGTGTGATTACCACCAGGATCTGTATGATGACTTTGAATGGGTGCATGTTAGTGC
TCAAGAGCCTCATTATCTACCACCCGAGATGCCCCAAGGTAATATTTGAAGCTGAAGTCTCAGGAGGGAG
AAGTGGTTATATTGCCATTGATGACATCCAAGTACTGAGTTATCCTTGTGATAAATCCTCATTTCCTC
CGTCTAGGGGATGTAGAGGTGAATGCAGGGCAAACGCTACATTTCAAGTGCATTGCCACAGGGAGAGATG
CTGTGCATAACAAGTTATGGCTCCAGAGACGAAATGGAGAAGATATACCAGTAGCCAGACTAAGAACAT
CAATCATAGAAGGTTTGCCGCTTCCTTCAGATTGCAAGAAGTGACAAAACTGACCAGGATTTGTATCGC
TGTGTAACCTCAGTCAGAACGAGGTTCCGGTGTGCCAATTTTGCTCAACTATTGTGAGAGAACCGCCAA
GACCCATTGCTCCTCCTCAGCTTCTTGGTGTGGGCTACATATTTGCTGATCCAATAAATGCCAACTC
GATCATTGGCGATGGTCTATCATCCTGAAAGAAGTAGAGTACCGAATGACATCAGGATCCTGGACAGAA
ACCCATGCAGTCAATGCTCCAATTACAAATTATGGCATTAGATCCAGATACCGAATATGAGATCCGAG
TTCTACTTACAAGACCTGGTGAAGGTGGAACGGGGCTCCAGGACCTCCACTAATCACCAGAACAAAATG
TGAGAACCTATGAGAACCCAAAGACATTAAGATTGCTGAAATACAGGCAAGACGGATTGCTGTGGAC
TGGGAATCCTTGGGTTACAACATTACGCGTTGCCACACTTTAATGTCATATCTGCTACCATTACTTCC
GTGGTCACAACGAGAGCAAGGCAGACTGTTGGACATGGACCCCAAGCCCTCAGCATGTTGTGAACCA
TCTGCCACCTTATACAAATGTCAGCCTCAAGATGATCCTAACCAATCCAGAGGGAAGGAAGGAGAGTGAA
GAGACAATTATTCAAACTGATGAAGATGTGCCTGGTCCCGTACCAGTAAAATCTCTTCAAGGAACATCCT
TTGAAAATAAGATCTTCTTGAAGTGGAAAGAACCTTTGGATCCAAATGGAATCATCACTCAATATGAGAT
CAGCTATAGCAGTATAAGATCATTGATCCTGCAGTCCAGTGGCTGGACCTCCCAGACTGTATCAAAAT
TTATGGAACAGTACACACCATGTCTTTATGCATCTCCACCTGGAACACAGTACCAGTTTTTCATAAGAG
CCAGCACGGTCAAAGGCTTTGGTCCAGCCACAGCCATCAATGTCACCACCAATATCTCAGCTCCAACCTT
ACCTGACTATGAAGGAGTTGATGCCTCTCTCAATGAAACTGCCACCACAATAACTGTATTGTTGAGACCA
GCACAAGCCAAAGGTGCTCCTATCAGTGCTTATCAGATTGTTGTGGAAGAAGTGCACCCACACCGAACCA
AGAGAGAAGCCGGAGCCATGGAATGCTACCAGGTTCTGTGACATACCAAAATGCCATGAGTGGGGGTGC
ACCGTATTACTTTGCTGCAGAACTCCCCCGGAAACCTACCTGAGCCTGCCCGTTCACTGTGGGTGAC
AATCGGACCTACCAAGGCTTTTGAACCTCCTTTGGCTCCGCGCAAAGGATACAACATCTATTTCCAGG
CGATGAGCAGTGTGGAGAAGGAACTAAAACCCAGTGCCTACGCATTGCTACAAAAGCAGCAGCAACAGA
AGAACCGAAGTATCCCAGATCCGCCAAGCAGACAGACAGAGTGGTGAATAAGCAGGAATTAGTGCT
GGAATTTTGGTGTTCATCCTCCTTCTCCTAGTTGTGATTAATTGTAATAAAGAGATATATATGTTGGA
GAAGACACATCTGCATTAGAAACATTAGGAGGAGCTACTATTCTACTCCTACTCCTCAAACCTGCTAA
AAAACGCAAAGATGCCATGGGGAATACCCGGCAGGAGATGACTCACATGGTGAATGCAATGGATCGAAGT
TATGCTGATCAGAGCACTCTGCATGCAGAAGATCCTCTTCCATCACCTTCATGGACCAACATAACTTTA
GTCCAAGATTGCCAATGATCCACTGTACCGACTGCTGTGTTAGTTCCTATAACAGGAAGAAAAAATGT
TTATCATGGGGACAACAATTCATTTTTTGTATATCCTATTTGTAG
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001291983

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_001291983.1](#), [NP_001278912.1](#)

RefSeq Size: 3002 bp

RefSeq ORF: 2286 bp

Locus ID: 5796

Cytogenetics: 6q22.33

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 (5) differs in the 5' and 3' UTRs and coding sequence compared to variant 3. The resulting isoform (d) has shorter and distinct N- and C-termini compared to isoform c.