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Product datasheet for SC325414

PTP kappa (PTPRK) (NM_001135648) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP kappa (PTPRK) (NM_001135648) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP kappa
Synonyms:	R-PTP-kappa
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_001135648 edited
ATGGATACGACTGCGGCGGCGGCGCTGCCTGCTTTTGTGGCGCTCTTGCTCCTCTCTCCT
TGGCCTCTCCTGGGATCGGCCCAAGGCCAGTTCTCCGCAGGTGGCTGTACTTTTGATGAT
GGTCCAGGGGCCTGTGATTACCACCAGGATCTGTATGATGACTTTGAATGGGTGCATGTT
AGTGCTCAAGAGCCTCATTATCTACCACCCGAGATGCCCCAAGGTTCCTATATGATAGTG
GACTCTTCAGATCACGACCCTGGAGAAAAAGCCAGACTTCAGCTGCCTACAATGAAGGAG
AACGACACTCACTGCATTGATTTCAGTTACCTATTATATAGCCAGAAAGGACTGAATCCT
GGCACTTTGAACATATTAGTTAGGGTGAATAAAGGACCTCTTGCCAATCCAATTTGGAAT
GTGACTGGATTCACGGGTAGAGATTGGCTTCGGGCTGAGCTAGCAGTGAGCACCTTTTGG
CCCAATGAATATCAGGTAATATTTGAAGCTGAAGTCTCAGGAGGGAGAAGTGGTTATATT
GCCATTGATGACATCCAAGTACTGAGTTATCCTTGTGATAAATCTCCTCATTTCCTCCGT
CTAGGGGATGTAGAGGTGAATGCAGGGCAAAACGCTACATTTCAGTGCATTGCCACAGGG
AGAGATGCTGTGCATAACAAGTTATGGCTCCAGAGACGAAATGGAGAAGATATACCAGTA
GCCCAGACTAAGAACATCAATCATAGAAGGTTTGCCGCTTCCTTCAGATTGCAAGAAGTG
ACAAAAACTGACCAGGATTTGTATCGCTGTGTAACTCAGTCAGAACGAGGTTCCGGTGTG
TCCAATTTTGCTCAACTTATTGTGAGAGAACCGCCAAGACCCATTGCTCCTCCTCAGATT
CTTGGTGTTGGGCCTACATATTTGCTGATCCAACTAAATGCCAACTCGATCATTGGCGAT
GGTCCTATCATCCTGAAAGAAGTAGAGTACCGAATGACATCAGGATCCTGGACAGAAACC
CATGCAGTCAATGCTCCAACTTACAAATTATGGCATTTAGATCCAGATACCGAATATGAG
ATCCGAGTTCTACTTACAAGACCTGGTGAAGGTGGAACGGGGCTCCCAGGACCTCCACTA
ATCACCAGAACAAAATGTGCAGAACCTATGAGAACCCCAAAGACATTAAAGATTGCTGAA
ATACAGGCAAGACGGATTGCTGTGGACTGGGAATCCTTGGGTTACAACATTACGCGTTGC
CACACTTTTAATGTCACTATCTGCTACCATTACTTCCGTGGTCACAACGAGAGCAAGGCA
GACTGTTTGGACATGGACCCCAAAGCCCCTCAGCATGTTGTGAACCATCTGCCACCTTAT
ACAAATGTCAGCCTCAAGATGATCCTAACCAATCCAGAGGGAAGGAAGGAGAGTGAAGAG
ACAATTATTCAAACTGATGAAGATGTGCCTGGTCCCGTACCAGTAAAATCTCTTCAAGGA
ACATCCTTTGAAAATAAGATCTTCTTGAACTGGAAAGAACCTTTGGATCCAAATGGAATC

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ATCACTCAATATGAGATCAGCTATAGCAGTATAAGATCATTTGATCCTGCAGTCCCAGTG
GCTGGACCTCCCCAGACTGTATCAAATTTATGGAACAGTACACACCATGTCTTTATGAAT
CTCCACCCTGGAACCACGTACCAGTTTTTCATAAGAGCCAGCACGGTCAAAGGCTTTGGT
CCAGCCACAGCCATCAATGTCACCACCAATATCTCAGCTCCAACTTTACCTGACTATGAA
GGAGTTGATGCCTCTCTCAATGAAACTGCCACCACAATAACTGTATTGTTGAGACCAGCA
CAAGCCAAAGGTGCTCCTATCAGTGCTTATCAGATTGTTGTGGAAGAACTGCACCCACAC
CGAACCAAGAGAGAAGCCGGAGCCATGGAATGCTACCAGGTTCCTGTCACATACCAAAAT
GCCATGAGTGGGGGTGCACCGTATTACTTTGCTGCAGAACTACCCCCGGGAAACCTACCT
GAGCCTGCCCCGTTCACTGTGGGTGACAATCGGACCTACCAAGGCTTTTGGAACCCTCCT
TTGGCTCCGCGCAAAGGATACAACATCTATTTCCAGGCGATGAGCAGTGTGGAGAAGGAA
ACTAAAACCCAGTGCGTACGCATTGCTACAAAAGCAGCAGCAACAGAAGAACCAGAAGTG
ATCCCAGATCCCGCCAAGCAGACAGACAGAGTGGTGAAAATAGCAGGAATTAGTGCTGGA
ATTTTGGTGTTCATCCTCCTTCTCCTAGTTGTCATATTAATTGTAAAAAAGAGCAAACTT
GCTAAAAAACGCAAAGATGCCATGGGGAATACCCGGCAGGAGATGACTCACATGGTGAAT
GCAATGGATCGAAGTTATGCTGATCAGAGCACTCTGCATGCAGAAGATCCTCTTTCCATC
ACCTTCATGGACCAACATAACTTTAGTCCAAGATATGAGAACCACAGTGCTACAGCAGAG
TCCAGTCGCCTTCTAGACGTACCTCGCTACCTCTGTGAGGGGACGGAATCCCCTTACCAG
ACAGGACAGCTGCATCCAGCCATCAGGGTAGCTGATTTACTGCAGCACATTAATCTCATG
AAGACATCAGACAGCTATGGGTTCAAAGAGGAATATGAGAGCTTTTTTGAAGGACAGTCA
GCATCTTGGGATGTAGCTAAAAAAGATCAAAATAGAGCAAAAAACCGATATGGAAACATT
ATAGCATATGATCACTCCAGAGTGATTTTGCAACCCGTAGAGGATGATCCTTCCTCAGAT
TATATTAATGCCAACTATATTGATATTTGGCTGTACAGGGATGGCTACCAGAGACCAAGT
CATTACATTGCAACCCAAGGTCCCGTTCATGAAACAGTGTATGATTTCTGGAGGATGATT
TGGCAAGAACAATCTGCTTGCATTGTGATGGTTACAAATTTAGTTGAGGTTGGCCGGGTT
AAATGCTATAAATATTGGCCTGATGATACTGAAGTTTATGGTGACTTCAAAGTAACGTGT
GTAGAAATGGAACCACTTGCTGAATATGTAGTTAGGACATTCACCCTGGAAAGGAGGGGG
TACAATGAAATCCGTGAAGTTAAACAGTTCCATTTCACGGGCTGGCCTGACCATGGAGTG
CCCTACCATGCTACAGGGCTGCTTTCCTTTATCCGGCGAGTCAAGTTATCAAACCCTCCC
AGTGCTGGCCCCATCGTTGTACATTGCAGTGCTGGTGCTGGACGAACTGGCTGCTACATT
GTGATTGACATCATGCTAGACATGGCTGAAAGAGAGGGTGTTGTTGATATTTACAATTGT
GTCAAAGCCTTAAGATCTCGGCGTATTAATATGGTCCAGACAGAGGAACAGTACATTTTT
ATTCATGATGCCATTTTAGAAGCCTGCTTATGTGGAGAAACTGCCATACCTGTCTGTGAA
TTTAAAGCTGCATATTTTGATATGATTAGAATAGACTCCCAGACTAACTCTTCACATCTC
AAGGATGAATTTCAGACTCTGAATTCAGTCACCCCTCGACTACAAGCTGAAGACTGCAGT
ATAGCGTGCCTGCCAAGGAACCATGACAAGAACCGTTTCATGGACATGCTGCCACCTGAC
AGATGTCTGCCTTTTTTAATTACAATTGATGGGGAGAGCAGTAACTACATCAATGCTGCT
CTTATGGACAGCTACAGGCAACCAGCTGCTTTCATCGTCACACAATACCCTCTGCCAAAC
ACTGTAAAAGACTTCTGGAGATTAGTGTATGATTATGGCTGTACCTCCATTGTGATGTTA
AACGAAGTCGACTTGTCCCAGGGCTGCCCTCAGTACTGGCCAGAGGAAGGGATGCTACGA
TATGGCCCCATCCAAGTGGAATGTATGTCTTGTTCAATGGACTGTGATGTGATCAACCGG
ATTTTTAGGATATGCAATCTAACAAGACCACAGGAAGGTTATCTGATGGTGCAACAGTTT
CAGTACCTAGGATGGGCTTCTCATCGAGAAGTGCCTGGATCCAAAAGGTCATTCTTGAAA
CTGATACTTCAGGTGGAAAAGTGGCAGGAGGAATGCGAGGAAGGGGAAGGCCGGACGATT
ATCCACTGCCTAAATGGTGGCGGGCGAAGTGGCATGTTCTGTGCTATAGGCATCGTTGTT
GAAATGGTGAAACGGCAAAATGTTGTCGATGTTTTCCATGCAGTAAAGACACTGAGGAAC
AGCAAGCCAAACATGGTGGAAGCCCCGGAGCAATACCGTTTCTGCTATGATGTAGCTTTG
GAGTACCTGGAATCATCTTAG

Restriction Sites: Please inquire

ACCN: NM_001135648

Insert Size: 4700 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001135648.1, NP_001129120.1
RefSeq Size:	6173 bp
RefSeq ORF:	4341 bp
Locus ID:	5796
UniProt ID:	Q15262
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 (1) lacks three alternate in-frame exons compared to variant 3. The resulting isoform (a) has the same N- and C-termini but is shorter compared to isoform c.