

Product datasheet for MR222223

Ptpn14 (NM_008976) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptpn14 (NM_008976) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptpn14
Synonyms: C130080N23Rik; OTTMUSG00000022087; PTP36
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222223 representing NM_008976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTTCGGCCTGAAGCTCCGCAGGACTCGGCGCTACAACGTCCTGAGCAAGAAGTCTTTGTTACCC
 GGATCCGCTGCTGGACAGCAATGTCATCGAGTGCACGCTGTCGGTGGAAAGCACGGGGCAAGAGTGCCT
 GGAGGCCGTGGCCAGAGGCTGGAGCTGAGGGAGACGCACTACTCGGCCTTTGGTTTCTCAGCAAGAGC
 CAGCAGGGCAGATGGGTAGAGCTGGAGAAGCCACTGAAGAAACATCTGGACAAGTTTGCTAACGAGCCTC
 TGCTTTTCTTCGGAGTCATGTTCTATGTGCCAAATGTGTACGGCTTCAGCAGGAGGCCACAAGATATCA
 GTATTACCTGCAAGTCAAAAAGACGTGCTTGAAGGACGGTTGCGGTGCTCCCTGGAACAAGTGATCCGG
 CTGGCTGGCTTAGCTGTGCAAGCTGACTTCGGAGATTATAACCAGTTTGATTCCCAAGAGTTCCTCCGAG
 AGTATGTGCTCTTTCCTATGGATTTGGCCATGGAGGAGGCGGCTCTGGAGGAGCTAACCCAGAAGGTGGC
 CCAGGAACACAAAGCTCATAGCGGGATCCTGCCGGCTGAAGCTGAACTGATGTACATCAACGAGGTAGAG
 CGTTTGGATGGATTTGGACAGGAGATCTCCCCGTGAAGGACAGTCATGGCAACAGCGTGCACCTCGGCA
 TCTTCTCATGGGATTTTTGTGAGGAACAGGGTCGGGAGACAGGCAGTGATATACAGGTGGAATGACAT
 TGGGAGTGTTACTCACAGCAAAGCAGCCATCCTGTTGGAGCTGATTGACAAGGAGGAGACCGCGCTCTTC
 CATACAGATGATATTGAAAATGCCAAGTACATTTCTCGTTGTTTACCCTCGGCACAAATTTTACAAC
 AGAACAGATCTGCACTGAACAGTCAAATTTCTCACCCCAATTAGACGCCAGCCACCTGGAGCCGGTC
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 TAACCTCAATATCATCAACACCCATGCCTATAACCAGCCCGAGGAAGTGGTGTACAGCCAGCCGGAGATG



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CGGGAGAGGCATCCCTACACGGTCCCCTATGCACACCAGGGGTGCTACGGTCACAAAATTGTAAGTCCGT
CTGACCAGATGAACCCCAAAATTTGTGCGATGCCTATCAAGCCAGGGGCCAGTTCATCTCACACACAGT
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GACCATGCGCAGTACAAGTTCGTCTACCAAGTCTCTGTCAGTCTCTGCAGAATTCAGGCTCATT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222223 representing NM_008976
Red=Cloning site Green=Tags(s)

MPFGLKLRRTRRYNVLSKNCFVTRIRLLDSNVIECTLSVESTGQECLEAVAQRLELRETHYFGLWFLSKS
 QQARWVELEKPLKKHLDFANEPLFFGVMFYVNPVSRLLQAEATRYQYYLQVKKDVLGRRLRCSLEQVIR
 LAGLAVQADFQDYNQFDSQEFLEYYLFPMDLAMEEAALEELTQKVAQEHKAHSGILPAEAEIMYINEVE
 RLDGFGQEIFPVKDSHGNSVHLGIFFMGIFVNRNRVGRQAVIYRWNDIGSVTHSKAAILLELIDKEETALF
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 THTSQDSIFPGNEEALYCRSHNSLDLNYLNGTVTNGSVCSVHVSNSLSCSQSFIQASPVSSNLSIPGSDI
 MRADYIPSHRHSTIIIVPSYRPTPDYETVMRQMKRGLMHADSQSRSLRNLNIIINTHAYNQPEELVYSQPEM
 RERHPYTPVYAHQGCYGHKLVSQSDQMNPNQCAMPKPGASSISHTVSTPELANMQLQGAQHYSTAHMLK
 NYLFRPPPPYPRPRPATSTPDLASHRHKYVSGSSPDLVTRKVVQLSVKTFQEDSSPVVHQSLQEVSEPLTA
 TKHHGGGGGTVNRHSLEVMSVMVRGMEAMTLKSLNIPMARRNTLREQGPSEETGGHEVHGLPQYHHKKT
 FSDATMLIHSSEEEEEETLEAAPQVPVLREKVEYSAQLQAALARIPNRPPEYVPGPRKSVSNGALRQDQ
 GTPLPAMARCVLRHGPKALSVSRAEQLAVNGASLGPSISEPDLTSVKERVKKEPVKERPVSEMFLED
 SIIEREMMIRNLEKQKMTGPQAQKRPLMLAALNGLSVARVSGREDGHHDATRVPIDERLRALKKKLEDGM
 VFTEYEQIPNKKANGVFSTATLPENAERSRIREVVPYEENRVELIPTKENNTGYINASHIKVVVGGSEWH
 YIATQGPLPHTCHDFWQMVWEQGVNVIAMVTAEEEGGRTKSHRYWPKLGSKHSSATYGKFKVTTKFRDTS
 GCYATTGLKVKHLLSGQERTVWHLQYTDWPHHGCPEDVQGFLSYLEEIQSVRRHTNSVLEGIRTRHPPIV
 VHCSAGVGRGTGVVILSELMICYLEHNEKVEVPTMLRFLREQRMFIQTIAQYKFVYQVLVQFLQNSRLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

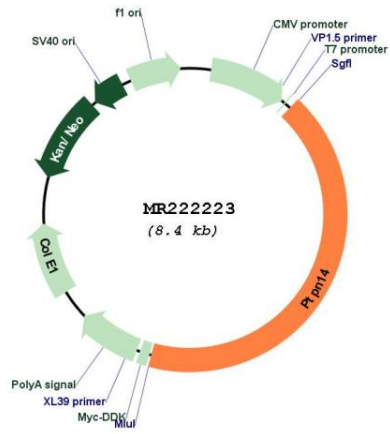


ACCN: NM_008976

ORF Size: 3567 bp

OTI Disclaimer:	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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_008976.2 , NP_033002.2
RefSeq Size:	10766 bp
RefSeq ORF:	3570 bp
Locus ID:	19250
UniProt ID:	Q62130
Cytogenetics:	1 95.03 cM
MW:	135.5 kDa
Gene Summary:	Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis, cell-cell adhesion, cell-matrix adhesion, cell migration, cell growth and also regulates TGF-beta gene expression, thereby modulating epithelial-mesenchymal transition. Mediates beta-catenin dephosphorylation at adhesion junctions. Acts as a negative regulator of the oncogenic property of YAP, a downstream target of the hippo pathway, in a cell density-dependent manner. May function as a tumor suppressor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222223