

## Product datasheet for **MC224834**

### Ptpn23 (NM\_001081043) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn23 (NM_001081043) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpn23
Synonyms:	A1462446; PTP-TD14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224834 representing NM_001081043 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCGTGCCCGGATGCCCATGATCTGGCTGGACCTGAAGGAGGCCGGTGACTTTCACCTCCAGT  
CTGCGGTGAAGAAGTTTGTCTGAAGAATTATGGAGAGAACCAGAAGCCTACAACGAGGAACTAAAGAA  
GCTGGAATTACTCAGACAGAATGCTATTCGCGTTGCCCGGACTTTGAGGGCTGCAGTGTCTTCGAAAG  
TACCTTGGCCAGCTACACTACCTACAGAGTCGGGTGCCCATGGGCTCAGGCCAGGAGGCTGCTGTAGCTG  
TCACCTGGACTGAGATCTTCTCGGGCAAGTCTGTGCCATGAAGACATCAAGTACGAGCAGGCCTGTAT  
TCTCTACAACCTCGGTGCACTGCACTCCATGCTGGGGCTATGGACAAGCGGGTGTCTGAGGAGGCCATG  
AAAGTCTCTGCACCCACTTCCAGTGTGCAGCAGGCGCCTTTGCCTACCTGCGTGAACACTTCCCACAGG  
CCTTCAGTGTGGACATGAGTCGCCAGATCCTTACGCTCAATGTCAACCTCATGCTGGGCCAGGCTCAGGA  
GTGCCCTGTTGGAGAAGTCCATGTTGGACAACCGGAAGAGCTTTCTAGTGGCCGCATCAGCGCACAGGTG  
GTAGATTACTATAAGGAGGCATGCCGGCCTTGAAAAACCTGATACTGCCTCCCTGCTGGGCCGTATCC  
AGAAAGACTGGAAGAACTTGTCCAAATGAAGATCTACTTTGCGGCTGTGGCTCATCTACACATGGG  
GAAGCAGGCTGAGGAGCAACAGAAATTTGGGAACGGGTGGCCTACTTCCAGAGTGCCCTGGACAAGCTT  
AATGAAGCCATCAAGTTGGCCAAGGCCAGCCGACACTGTGCAAGATGCACCTTCGCTTTGCTATGGATG  
TCATCGGGGCAATATAATTCTGCCAAGAAGGACAATGACTTTTCTACCATGAGGCTGTGCCAGCACT  
GGATACACTCCAGCCTGTGAAAGGAGCTCCCTTGGTGAAGCCCTTGCCAGTAAACCCACAGACCCAGCT  
GTTACAGGTCCTGACATCTTTGCCAAGTTGGTGCCATGGCTGCCATGAGGCCTCATCACTGTACAGTG  
AGGAGAAGGCCAACTGCTTCGGGAGATGCTGGCCAAAATTGAAGATAAGAATGAGGTCCTAGATCAGTT  
CATGGACTCCATGCAGCTGGACCCTGAGACAGTGGACAACCTGGATGCCTACAACCATATCCCCCCCAG  
CTCATGGAGAAGTGTGCCGCACTCAGCGTCCGGCCTGACACTGTCAAGAACCTTGTCCAGTCTATGCAGG  
TGCTGTCAGGGTGTTCACGGATGTGGAGGCCCTCCTGAAGGACATCAGGGATCTACTGGAGGAAGATGA  
GCTGCAAGAGCAGAAATGCAGGAGACCCTGGGCCAGGCCGGGCTGGCCCTGGCCCTCTGTTGCCAAG



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GCTGAGCTTGCAGAGGTGAGGCGAGAATGGGCCAAGTACATGGAAGTGCATGAAAAGGCTTCCTTACCA  
 ACAGTGAGCTGCATCGTCTATGAACCTGCATGTTGGTAACTTGCGCCTGCTCAGTGACCAGTGGACCA  
 GGTGCGGGCTGCCTACCCACACCAGCCCTCACCCAGAGGACAAAGCCGTGCTGCAAAACCTAAAGCGC  
 ATCCTCGCAAGGTGCAGGAGATGCGGGACCAGCGTGTGTCTTGAACAGCAGCTCCGAGAGCTGATCC  
 AGAAGGATGACATCACTGCCTCTCTGGTACCAGTACCAGTACAGAGTGAAGAACTGTTTGAGGAGCA  
 GCTGAAGAAGTATGACCAGCTGAAGGTCTACCTGGAGCAGAACCCTGGCCGCCAGGACAATGCTCCTCGT  
 GCCCTGACTGAGGCCAACGTGCAGTATGCAGCCGTGCGGCGGGTCTTAGTGAGCTGGACCAAAAGTGA  
 ACTCCACACTACAGACCCTGGTAGCATCCTATGAGGCCTATGAGGACCTGATGAAGAAGTCCCAAGAAGG  
 CAAGGACTTTTATGCAGACTTGGAAAGCAAGGTAGCTACCCTTCTGGAACGGGCACAATCCTATCTGCTG  
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 CAGCCCCAAAGCCATTGCTGTCCCGCCGTGAGGAGGGGAGGCAGTGGAGGCTGGAGACACACCTGAGGA  
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 CCTCTCCACTTTTCTCCTGGCCCTTCCCTAGTCCACAGGCCAGCAACCCACTATCTCTCAGGACCT  
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 GGAATTGTAAGCAGTCCCTATGCAGGGGTAGGGCCACCCCAACCAGTTGTAGGTCTCCCTCTGCTCCAC  
 CTCCCCAGCTCTCAGGACCCGAGTTAGCCATGACAGTTCGGCCAGCTACCACCACAGTAGATAGTGCCA  
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 GTGCCTCAGCCTGTACCTCAATCTGTTCCCAACCACAGCCTCTGCCTGTACCCTATACTTATTCTATAG  
 GGACCAAGCAGCCTCTGCCTGCACCCTATACTTACTCTATAGGGACCAAGCAGCAGCTCACTGGCCCTCT  
 ACCACAGCATCAGTTTCTCCTGGGATCCCCACAGGCTTCCAGTCCCAGGACTGGGCCCCAGGCCAG  
 GCCAGCCCCAACCCAGCCCCAGCCCCAGCCTCAGCCTCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCC  
 AGTCCCAGTCCCAGCCCCAGCCCCAGCCTCAGCCCCAACGGCCAGCATTTGGGCCACAACCCCA  
 ACAACAGCCCTTCCATTCCAGCATCCACATCTTCCCATCTCAGGCCCCAGGGATTCTTCCACCACCA  
 CCACCAACACCCTACCATTTTACTCCTCAGCCTGGTGTCTTGGGACAACCACCACCACCCTACACACC  
 AGCTCTATCCAGGCCATCTCAAGACCCTTCCCCACATTAGGGGCTCTGCCTTCCCAGCCCTGG  
 GCCCCTCATCTCACCCACCCTGGCATATGGCCCTGCCCTTCCCTAGGCCCTTGGTCTCAGGCA  
 ACCCTGTCTCCATTGAGGCCCCACCAGCCAGTCCAGCCACCCTAGTCCACACTTGGTGCCTTAC  
 CTGCCCATCACCAGGCCCTGGCCAGTACCTCAAGACCTCCAACAGCCAGCCACCACCTTGTGTGG  
 CCGAGGTGCTGCAGCTGCAGACCTTCTGTCTTCTAGCCCTGAGAGCCAGCATGGAGTACCAGCCTCT  
 GGGGGTGGGAGCCCTTGTACAGCCTACCAAGGTAGATGCAGCTGAGGGCCGTGCGCCACAGGCCCTGC  
 GGCTAATTGAGCAGGACCCTATGAACATCCCAGAGGCTGCAGCAGTTGCAGCAGGAGCTGGAGGCCCT  
 TCGGGGCCAGCTGGGGATGCAGGAGCACTGGATGCCATCTGGAGAGAGTTGCAAGAGGCACAGGAACAC  
 GATGCCCGAGGTGCATCCATTGCCATTGCCGCTGCTACTCCCTGAAGAACCAGCCAGGATGTCATGC  
 CGTATGACAGCAACCGTGTGGTGTGCGCTCAGGCAAAGATGATTATTAATGTAGCTGTGTGGAGGG  
 GCTCTCGCATACTGTCCACCCTTAGTGGCCACCAGGCTCCGCTGCCTGGCACAGCTGCAGATTCTGG  
 CTCATGGTGCATGAACAGAAAGTGTGAGTATTGTGATGCTGGTGTCTGAGGCTGAGATGGAAAAGCAA  
 AGGTGGCGGTTACTTCCCACAGAGAGGGGCCAGCCATGGTGCATGGAGCCCTGAGCGTGGCACTGAG  
 CAGTATTCGTACTACTGAGACCCATGTGGAGCGAGTGTGAGTCTGAGTCCGGGATCAGAGCCCTCAAG  
 CGCTCTTTGTGCACCTCCATTTCCCTACTTGGCCTGAGTTAGGCCTGCCAGACAGCCCTGGCAATCTGC  
 TGCCTTTCATCCAGGAGGTGCATGCACATTATTTGCACCAGCAGCCCTGCACACACCTATTGTCGTACA  
 CTGCAGCTCTGGGGTGGGCCGCACAGGACCTTCCGCTTCTATGCAGCCGTGCAGGAGGTGGAGGCT  
 GGGAAATGGGATTCCAGAGCTGCCCCAGCTGGTGGGCGGATGCGGCAGCAGAGGAAACACATGCTGCAGG  
 AAAAATTCACTCAAGTTCTGCCATGAGGCGTTGGTGGAGACATGTGGAGCAGGTCTACAGCGCCATGG  
 TGTGCTCCTCCTGGCAAGCCTGTGGCCAGTGTGAACATCAGCCAGAAGAACCACCTTCTCAGGACTCC  
 CAGGATCTGGTCTTGGTGGAGACGTGCCATCAGCTCCATTAGGCTACCATTGCCAAGCTCAGCATCC  
 GGCCCTAGGTGGCTTGGATTCCCAGCTGCCAGCCTCCAGGCCTTGTAGAACCCAGGTCTTCCACC  
 AGCTAGCCTTCCAGAGTCTACCCCTGTCCATCTTCTCGCTCCCCACTCTCTTACCTCTGCCTGAA  
 GCCCCCCAGCCAGGAGGAGCCGTGAGTGCCTGAAGCCCCAGCTTAGGGCCCCCTGTCATCCCTGG  
 AGCTGTTGGCCTCTGACTCCAGAAGCATTTTACTGGACAGTCTTTACGGGGAAAGCAGCGGATGAG  
 CAAGCAGAAGTTTCTGCAGGCCACAACGGGCAGGGTCTAAGGGCTGCCAGCCTACGGATGACCCCTC  
 AGCCTCTGGATCCACTTGGACACTCAACAAGACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001081043

**Insert Size:** 5079 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\\_001081043.1](#), [NP\\_001074512.1](#)

**RefSeq Size:** 5384 bp

**RefSeq ORF:** 5079 bp

**Locus ID:** 104831

**UniProt ID:** [Q6PB44](#)

**Cytogenetics:** 9 F2

**Gene Summary:** Plays a role in sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs) via its interaction with the ESCRT-I complex (endosomal sorting complex required for transport I), and possibly also other ESCRT complexes. May act as a negative regulator of Ras-mediated mitogenic activity. Plays a role in ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]