

Product datasheet for RC211163

PTPRS (NM_130853) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PTPRS (NM_130853) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PTPRS |
| Synonyms: | PTPSIGMA; R-PTP-S; R-PTP-sigma |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC211163 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCACCTGGGGCCTGGCATGGTGTCTGTGGTTGGTCCCATGGGCCTCCTTGTGGTCCTGCTCG
TTGGAGGCTGTGCAGCAGAAGAGCCCCAGGTTTATCAAAGAACCAAGGACCAGATCGGCGTGTGGG
GGGTGTGGCCTTTTCGTGTGTACAGGCCACGGGTGACCCCAAGCCACGAGTGACCTGGAACAAGAAGGGC
AAGAAGGTCAACTCTCAGCGCTTGTAGACGATTGAGTTTGTGAGAGTGCAGGGCAGTGCTGAGGATCC
AGCCGCTGAGGACACCGCGGGATGAAAACGTGTACGAGTGTGTGGCCAGAACTCGTTGGGGAGATCAC
AGTCCATGCCAAGCTTACTGTCTCCGAGAGGACCAGCTGCCCTCTGGCTTCCCCAACATCGACATGGGC
CCACAGTTGAAGGTGGTGGAGCGGACACGGACAGCCACCATGCTCTGTGCAGCCAGCGGCAACCCTGACC
CTGAGATCACCTGGTTCAAGGACTTCTGCCTGTGGATCCTAGTGCCAGCAATGGACGCATCAAACAGCT
GCGATCAGGAGCCCTGCAGATTGAAAGCAGTGAGGAAACCGACCAGGGCAAATATGAGTGTGTGGCCACC
AACAGCGCCGGCGTGCCTACTCCTCACCTGCCAACCTTACGTGCGAGTCCGCCGCGTGGCCCCGCGCT
TCTCCATCCTGCCATGAGCCACGAGATCATGCCAGGGGCAACGTGAACATCACCTGCGTGGCCGTGGG
CTCGCCCATGCCATACGTGAAGTGGATGCAGGGGGCCGAGGACCTGACCCCGAGGATGACATGCCCGTG
GGTCGGAACGTGCTGGAACCTCACAGATGTCAAGGACTCGGCCAACTACACCTGCGTGGCCATGTCCAGCG
TGGGCGTCATTGAGGCGTTGCTCAGATCACGGTGAAATCTCTCCCAAAGCTCCCGGGACTCCCATGGT
GACTGAGAACACAGCCACCAGCATCACCATCACGTGGGACTCGGGCAACCCAGATCCTGTGTCTATTAC
GTCATCGAATATAAATCCAAGAGCCAAGACGGCCGATCAGATTAAGAGGACATCACCACCACACGTT
ACAGCATCGGCGGCCTGAGCCCCAACTCGGAGTACGAGATCTGGGTGTGGCCGTCAACTCCATCGGCCA
GGGGCCCCCAGCGAGTCCGTGGTCAACCGCACAGGCGAGCAGGCCCGGCCAGCGCGCCGGAACGTG
CAAGCCCCGATGCTCAGCGCACCACCATGATTGTGCAGTGGGAGGAGCCGGTGGAGCCCAACGGCCTGA
TCCGCGGCTACCGCTTACTACACCATGGAACCGGAGCACCCCGTGGGCAACTGGCAGAAGCACAACT
GGACGACAGCCTGCTGACCACCGTGGGAGCCTGCTGGAGGACGAGACCTACACCGTGGGGTGTCTGCC



[View online >](#)

TTCACCTCCGTCGGCGACGGGCCCTCTCGGACCCCATCCAGGTCAAGACGCAGCAGGGAGTGCCGGGCC
 AGCCCATGAACCTGCGGGCCGAGGCCAGGTCTGGAGACCAGCATACGCTGTCTTGGAGCCCCCGCGGCA
 GGAGAGTATCATCAAGTACGAGCTCCTCTTCCGGGAAGGCGACCATGGCCGGGAGGTGGGAAGGACCTTC
 GACCCGACGACTTCTACGTGGTGGAGGACCTGAAGCCCAACACGGAGTACGCTTCCGCTGGCGGCC
 GCTCGCCGACGGGCTGGGCGCCTTACCCCGTGGTGGCGCAGCGCACGCTGCAGTCCATCTCGCCAA
 GAACTTCAAGGTAAAAATGATCATGAAGACATCAGTTCTGCTCAGCTGGGAGTCCCTGACAACATAAC
 TCACCCACACCTACAAGATCCAGTACAATGGGCTCACACTGGATGGATGGCCGTACCACCAAGAAGC
 TCATCACGCACCTCAAGCCCACACCTTCTACAACCTTGTGCTGACCAATCGCGGCAGCAGCCTGGGCGG
 CCTCCAGCAGACGGTACCGCCTGGACTGCCTTCAACCTGCTCAACGGCAAGCCAGCGTCGCCCCCAAG
 CCTGATGCTGACGGTTCATCATGGTGTATCTTCTGACGGCCAGAGCCCCGTGCCTGTCCAGAGCTATT
 TCATTGTGATGGTGCCACTGCGCAAGTCTCGTGGAGGCCAATTCCTGACCCCGTGGGTAGCCAGAGGA
 CATGGATCTGGAAGAGCTCATCCAGGACATCTCACGGCTACAGAGGCGCAGCCTGCGGCACTCGCTCAG
 CTGGAGGTGCCCGGCCCTATATTGACGCTCGCTTCTGTGCTGCCACCCACGTTCCATCCCGGCGACC
 AGAAGCAGTATGGCGGCTTCGATAACCGGGGCCCTGGAGCCCGGCCACCGTATGCCTCTCGTGTTCG
 CGTGCTTCAAGAGCGAGCCTACCTTTCAGCCAGTCCCTTCTCAGACCCCTTCCAGCTGGATAACCCG
 GACCCCAAGCCATCGTGGATGGCGAGGAGGGCTTATCTGGGTGATCGGCGCTGTGCTGGCCGTGGTCT
 TCATAATCTGCATTGTCATTGCTATCCTGCTCTACAAGAACAACCCGACAGTAAACGCAAGGACTCAGA
 ACCCCGACCAAAATGCCTCCTGAACAATGCCGACCTCGCCCTCACCCACCAAGGACCTGTGGAAATG
 AGACGCATTAACCTCCAGACTCCAGGCATGCTTAGCCACCCGCCAATTCATCGCAGACATGGCGGAGC
 ACACGGAGCGGCTCAAGGCCAACGACAGCCTCAAGCTCTCCAGGAGTATGAGTCCATCGACCCTGGACA
 GCAGTTCATAGGAACATTCACCTGGAAGTGAACAAGCCGAAGAACCCTATGCCAAGTATCGCC
 TATGACCACTCCCGTGTATCCTCCAGCCATTGAAGGCATCATGGGAGTATTACATCAATGCCAACT
 ACGTGGACGGCTACCGGCTCAGAACCGTACATTGCCACGAGGGCCGCTGCCTGAGACCTTTGGGGA
 TTCTGGCGTATGGTGTGGGAGCAGCGGTGCGGACCATCGTATGATGACGCGGCTGGAGGAGAAGTCA
 CGGATCAAGTGTGATCAGTATTGCCCAACAGAGGCACGAGACCTACGGCTTATCCAGGTACGTTGC
 TAGATACCATCGAGCTGGCCACATTCTGCGTCAAGGACATTCTCTGACACAAGAATGGTCCAGTGAAG
 ACGCGAGGTCCGCGAGTCCAGTTACGGCGTGGCCGACCATGGCGTGGCCGAATACCAACGCCCTTC
 CTGGCTTCTGCGGAGAGTCAAGACCTGCAACCCGCCAGATGCCGGCCCATCGTGGTTCAGTGCAGTG
 CCGGTGTGGGCCGACAGGCTGCTTATCGTATCGACGCCATGCTTGGCGGATCAAGCCAGAGAAGAC
 AGTCGATGTCTATGGCCACGTGACGCTCATGAGGTCCAGCGCAACTACATGGTGCAGACGGAGGACCAG
 TACAGTTCATCCACGAGGCCCTGCTGGAGGCCGTGGGCTGTGGCAACACAGAAGTCCCGCACGCAGCC
 TCTATGCCTACATCCAGAAGCTGGCCAGGTGGAGCCTGGCGAACACGTCACCTGGCATGGAACCTCGAGT
 CAAGCGGCTGGCTAACTCCAAGGCCACACGTCACGCTTATCAGTGCCAATCTGCCTTGTAAACAAGTTC
 AAGAACCCTGGTGAACATCATGCCCTATGAGAGCACACGGGTCTGTCTGCAACCCATCCGGGGTGTGG
 AGGGCTGACTACATCAACGCCAGTTCATTGATGGCTACAGGCAGCAGAAGGCCTACATCGCGACACA
 GGGGCCGCTGGCGGAGACCACGGAAGACTTCTGGCGCATGCTGTGGGAGAACAATTCGACGATCGTGGT
 ATGCTGACCAAGTGGGGAGATGGGCCGGGAGAAGTGTACCAGTACTGGCCGGCCGAGCGCTCTGCC
 GCTACAGTACTTTGGTAGATCCGATGGCAGAATAACAATGCCTCAGTATATCTGCGAGAGTTCAA
 GGTACAGATGCCCGGATGGCCAGTCCCGGACTGTCCGGCAGTCCAGTTCACAGACTGGCCGGAACAG
 GGTGTGCCAAAGTGGGGGAGGGCTTATCGACTTCAATGGCCAAGTGCATAAAGACTAAGGAGCAGTTT
 GCCAGGACGCCCCATCTCTGTCCACTGACGTGCCGGCTGGGCAGGACGGGCGTCTTATCACGCTTAG
 CATCGTGTGGAGCGGATGCGGTATGAAGGCGTGGTGGACATCTTTCAGACGGTGAAGTGTACGAACC
 CAGCGGCCGCCATGGTGCAGACAGAGGATGAGTACCAGTTCTGTACCAGGCGGCACTGGAGTACCTCG
 GAAGCTTTGACCACTATGCAACC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211163 protein sequence
 Red=Cloning site Green=Tags(s)

MAPTWPGMVSVVGPMGLLVLLVGGCAAEEPPRFIKEPKDQIGVSGGVASFVCQATGDPKPRVTWNKKG
 KKVNSQRFETIEFDESAGAVLRIQPLRTPRDENVYECVAQNSVGEITVHAKLTVLREDQLPSGFNIDMG
 PQLKVVTRTRATMLCAASGNPDPEITWFKDFLPVDPASANGRIKQLRSGALQIESSEETDQKGYECVAT
 NSAGVRYSSPANLYVRRVRRVAPRF SILPMSHEIMPGGVNVNITCVAVGSPMPYVKKWMQGAEDLTPEDDMPV
 GRNVLELTDVKDSANYTCVAMSSLGVIEAVAQITVKSLPKAPGTPMVTENTATSITITWDSGNPDVSY
 VIEYKSKSQDGPYQIKEDITTTTRYSIGGLSPNSEYEWVSAVNSIGQPPSESVVTRTGEQAPASAPRNV
 QARMLSATTMIVQWEEPVEPNLIRGYRVYTTMEPEHPVGNWQKHNVDSSLLTTVGSLLEDETYTVRVLA
 FTSVGDGPLSDPIQVKTQQGVGQPMMLRAEARSET SITLSWSPRQESI IKYELLFREGDHGREVGRTF
 DPTTSYVVEDLKPNTHEYAFRLAARSPQGLGAFTPVVRQRTLQSI SPKNFKVKMIMKTSVLLSWEFPDNYN
 SPTPYKIYNGLTLDVDGRTTKKLITHLKPHTFYNFVL TNRGSSLGGLQQTVAWAFNLLNGKPSVAPK
 PDADGFI MVYLPDQSPVPVQSYFIVMVPLRKS RGGQFL TPLGSPEDMDLEELIQDISRLQRRSLRHSRQ
 LEVPRPYIAARF SVLPPTFHPGDQKQYGGFDNRGLEPGHRYVLFVLA VLQKSEPTFAASPFSDPQLDNP
 DPQPIVDGEEGLIWWIGPVLAVVFIICIVIAIILLYKNKPD SKRKDSEPRTKCLLNNADLAPHHPKDPVEM
 RRINFQTPGMLSHPPPIADMAEHTERL KANDSLKLSQ EYESIDPGQQTWEHSNLEVNKPKNRYANVIA
 YDHSRVILQPIEGIMGSDYINANYVDGYRRQ NAYIATQG PLPETFGDFWRMVWEQRSATIVMMTRLEEK
 RIKCDQYWPNGRTETGYFIQVTLTDTIELATFCV RTFSLHKNKSGSEKREVRQFQFTAWPDHGVPEYTPF
 LAFLRRVKT CNPPDAGPIV VHC SAGVGR TGCFIVIDAMLERIKPEKTV DVYGHVTL MRSQRNYMVQTEDQ
 YSFIHEALLEAVGCGNTEVPARSLYAYIQKLAQVEPGEHVTGMELEFKRLANSKAHTSRFISANLPCNKF
 KNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGPLAETTEDFWRMLWENNSTIVV
 MLTKLREMGREKCHQYWP AERSARYQYFVVDPM AEYNMPQYILREFKVT DARDGQSRTVRQFQFTDWPEQ
 GVPKSGEGFIDF IGQVHKTK EQFGQDGPISVHCSAGVGR TGVFITLSIVLERMRYEGVVDIFQTVKMLRT
 QRPAMVQTEDEYQFCYQA ALEYLGSFDHYAT

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

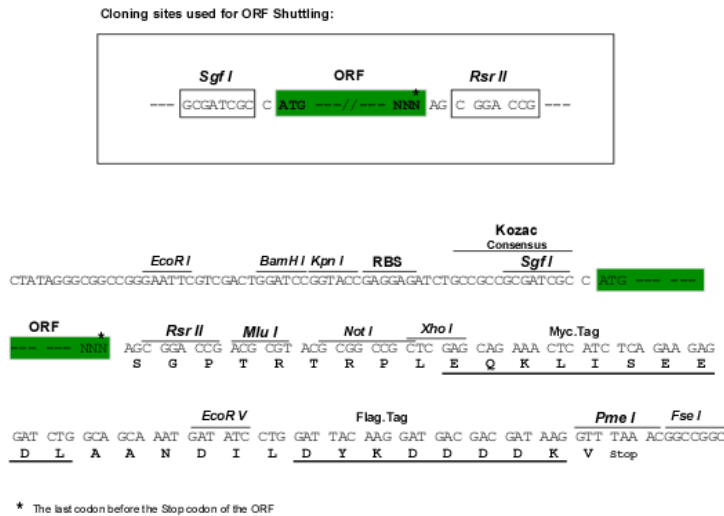
Chromatograms:

https://cdn.origene.com/chromatograms/mk6795_a05.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

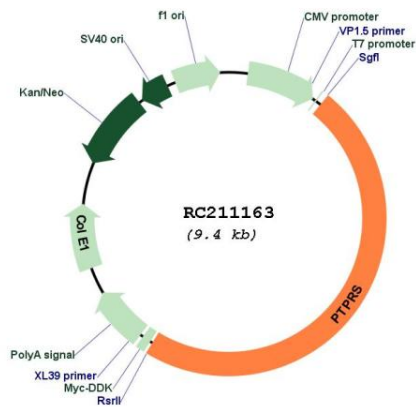
NM_130853

| | |
|-------------------------------|--|
| ORF Size: | 4503 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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_130853.3 |
| RefSeq Size: | 6006 bp |
| RefSeq ORF: | 4506 bp |
| Locus ID: | 5802 |
| UniProt ID: | Q13332 |
| Cytogenetics: | 19p13.3 |
| Protein Families: | Druggable Genome, Phosphatase, Transmembrane |
| MW: | 168.4 kDa |

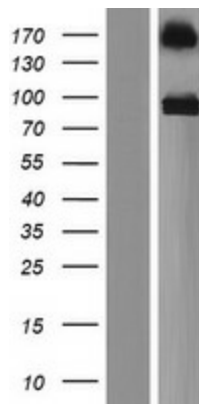
Gene Summary:

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 contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]

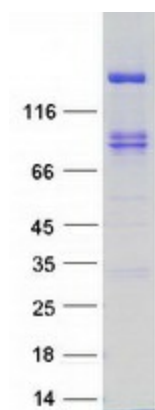
Product images:



Circular map for RC211163



Western blot validation of overexpression lysate (Cat# [LY408782]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTPRS protein (Cat# [TP311163]). The protein was produced from HEK293T cells transfected with PTPRS cDNA clone (Cat# RC211163) using MegaTran 2.0 (Cat# [TT210002]).