

Product datasheet for **RG238630**

PTPN5 (NM_001278239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001278239) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPN5
Synonyms:	PTPSTEP; STEP; STEP61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238630 representing NM_001278239.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGCTGCAGTGAAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCTGAA
GGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCCCTCTCCCTCGCCGCCCTCAGATCCAGCTCAG
AAGCCACCACCTCGAGGGCTGGGAGCCACTCCCTCACTGTGAGGAGCAGCCTGTGCCTGTTGCTGCC
TCACAGTTCCTGTGGAACCCACGGCTGGCTTACTCTGGGACGTGGGAGTCCCCAGTCTGCTGCTG
GTCTTTCTGTCCGTGGGCTGGTCTCGTTACCACCCTGGTGTGGCACCTCTGAGGACACCCCCAGAG
CCACCCACCCACTGCCCTGAGGACAGGCGCCAGTCACTGAGCCGCCAGCCCTCTTACCTACTCA
GAGTGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTCCCCGAGACTCTGTGTTT
GATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTACCGTCAAGTCCATGGGTCTGCAG
GAGAGGAGGGGTCCAATGTCTCCCTGACCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGCTTT
GGCTATCTCATGTCCCCAGTGAAGGCTGGACCCCTTCTGCTGCAGGCGGAATTTTGAATCCCCATG
GAGAAGAGCTTCAAGAAAGCCCTGGACCCCTTCTGCTGCAGGCGGAATTTTGAATCCCCATG
AACTTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGGGAAAGAACCCGTACAAAACCACTT
CCCAACCCCTCACAGCAGAGTGTGTCTGACCTCACCAGACCCTGACGACCCTCTGAGTTTCTACATCAAT
GCCAACTACATCCGGGGCTATGGTGGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTCAGC
ACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCCATCATTGTCTATGATACCAACATC
GAGGAGATGAACGAGAAATGCACCGAGTATTGGCCGAGGAGCAGGTGGCGTACGACGGTGTGAGATC
ACTGTGCAGAAAGTCAATCACACGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGCTGAG
GAGCGAGGCTGAAGCATTACTGGTTCACATCCTGGCCCGACCAGAAGACCCAGACCCGCCCCCCCCA
CTCTGCACTGGTGGGAGGAGGAGGAGCCAGCCAGCAGGAGGGGCCCACTGTGCCCCATATC
GTCCACTGCAGTGCAGGATTGGGAGGACCGGCTGCTTATTGCCACCAGCATCTGCTGCCAGCAGCTG
CGGCAGGAGGGTGTGGTGGACATCCTGAAGACCAGTGCAGCTCCGTCAGGACAGGGGGCGCATGATC
CAGACATGCGAGCAGTACCAGTTTGTGCCACCAGTCTAGCCTCTACGAAAAGCAGCTGTCCCACAG
TCCCCAGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238630
 Blue=ORF Red=Cloning site Green=Tag(s)

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MCCSERLPLPQPIVMEALDEAEGLDQSQREMPPPPPSPSDPAQKPPPRGAGSHSLTVRSSLCLFAA
SQFLLEPTAWLDSGTWGVPSLLLVFLSVGLVLVTTLVWHLLRTPPEPPTLPPEDRRQSVSRQPSFTYS
EWMEEKIEDDFLDLDPVPETPVFDCVMDIKPEADPTSLTVKSMGLQERRGSNVSLTDMCTPGCNEEGF
GYLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFEIPMNFVDPKEYDIPGLVRKNRYKTIL
PNPHSRVCLTSPDPDPLSSYINANYIRYGGEEKVYIATQGPVSTVADFWRMVWQEHTPIIVMITNI
EEMNEKCTEYWPEEQVAYDQVEITVQKVIHTEDYRLRLISLKSQTEERGLKHYWFTSWPDQKTPDRAPP
LLHLVREVEEAAQEQGPHCAPIIVHCSAGIGRTGCFIATSICCCQLRQEGVVDILKTTCLRQDRGMI
QTCEQYQFVHHVMSLYEKQLSHQSPE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

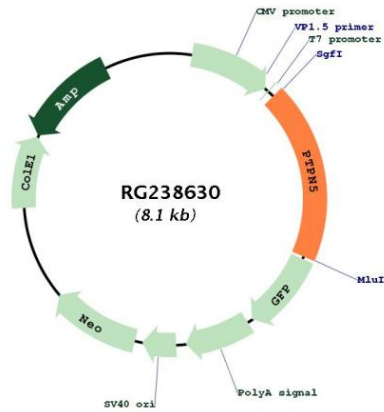
Sgfl-Mlul

Cloning Scheme:



- ACCN: NM_001278239
- ORF Size: 1527 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).
- RefSeq: [NM_001278239.2](#)
- RefSeq Size: 2972 bp
- RefSeq ORF: 1530 bp
- Locus ID: 84867
- UniProt ID: [P54829](#)
- Cytogenetics: 11p15.1
- Protein Families: Druggable Genome, Phosphatase, Transmembrane
- Protein Pathways: MAPK signaling pathway
- MW: 57.9 kDa
- Gene Summary: May regulate the activity of several effector molecules involved in synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238630