

## Product datasheet for **RG238753**

### PTPN5 (NM\_001278236) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN5 (NM_001278236) 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:**

>RG238753 representing NM\_001278236.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAATTATGAGGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCTGATGACTCCGAGGGAGGGGCCCTG
GACATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCT
GAAGGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCT
CAGAAGCCACCACCTCGAGGCGCTGGGAGCCACTCCCTCACTGTGAGGAGCAGCCTGTGCCTGTTGCTG
GCCTCACAGTTCCTGCTGGAACCCACGGCCTGGCTTACTCTGGGACGTGGGGAGTCCCCAGTCTGCTG
CTGGTCTTTCTGTCCGTGGGCCTGGTCTCTGTTACCACCCTGGTGTGCACCTCTGAGGACACCCCA
GAGCCACCCACCCACTGCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTTCACCTAC
TCAGATGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTCCCCGAGACTCTGTG
TTTGATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTCACCGTCAAGTCCATGGGCTG
CAGGAGAGGAGGGTTCCAATGTCTCCCTGACCCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGC
TTTGGCTATCTCATGTCCCCACGTGAGGAGTCCGCCCGGAGTACCTGCTCAGCGCTCCCGTGTCTC
CAAGCAGAAGAGCTTCATGAAAAGGCCCTGGACCCCTTCTGCTGCAGGCGGAATTCCTTTGAAATCCCC
ATGAACTTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGAAACCGGTACAAAACATA
CTTCCCAACCCTCACAGCAGAGTGTGTCTGACCTCACCAGACCCTGACGACCCTCTGAGTTCCTACATC
AATGCCAACTACATCCGGGGCTATGGTGGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTC
AGCACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCATCATTGTGATGATCACCAC
ATCGAGGAGATGAACGAGAAATGCACCGGAGTATTGGCCGGAGGAGCAGGTGGCGTACGACGGTGTGAG
ATCACTGTGCAGAAAGTCATTACACGGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACT
GAGGAGCGAGGCCCTGAAGCATTACTGGTTCACATCCTGGCCCGACAGAAAGACCCAGACCGGGCCCCC
CCACTCTGCACCTGGTGCAGGAGTGGAGGAGGAGCCAGCCAGCAGGAGGGGCCCCACTGTGCCCCATC
ATCGTCCACTGCAGTGCAGGGATTGGGAGGACCGGCTGCTTCAATGCCACCAGCATCTGCTGCCAGCAG
CTGCGGCAGGAGGGTGTGGTGGACATCTGAAGACCACGTGCCAGCTCCGTGAGGACAGGGGCGGCATG
ATCCAGACATGCGAGCAGTACCAGTTTGTGCACCACGTGATGAGCCTCTACGAAAAGCAGCTGTCCAC
CAGTCCCCAGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238753  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLDQSQREMPPPPPSPSDPA
QKPPPRGAGSHSLTVRSSLCLFAASQFLLEPTAWLDSGTWGVPSLLLVLVSVGLVLVTTLVWHLRTPP
EPPTPLPPEDRRQSVSRQPSFTYSEWMEEKIEDDFLDLPVPETPVFDCVMDIKPEADPTSLTVKSMGL
QERRGSNVSLTDMCTPGCNEEGFYLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFIIP
MNFVDPKEYDIPGLVRKNRYKTIIPNPHSRVCLTSPDPDPLSSYINANYIRGYGEEKVYIATQGPV
STVADFWRMVWQEHTPIIVMITNIEEMNEKCTEYWPEEQVAYDGVETVQKVIHTEDYRLRLISLKS
EERGLKHYWFTSWPDQKTPDRAPLLHLVREVEEAAQEGPHCAPIIVHCSAGIGRTGCFIATSICCQQ
LRQEGVVDILKTTCLRQDRGGMIQTCEQYQFVHHVMSLYEKQLSHQSP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001278236

ORF Size: 1599 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\\_001278236.1](#), [NP\\_001265165.1](#)

RefSeq Size: 3939 bp

RefSeq ORF: 1602 bp

Locus ID: 84867

UniProt ID: [P54829](#)

Cytogenetics: 11p15.1

Protein Families: Druggable Genome, Phosphatase, Transmembrane

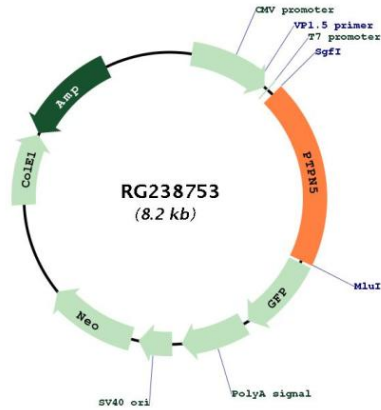
Protein Pathways: MAPK signaling pathway

MW: 60 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 RG238753