

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)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAATTATGAGGGAGCCAGGAGTGAGAGAGAGAACCACGCTGCTGATGACTCCGAGGGAGGGGCCCTG
GACATGTGCTGCAGTGAGAGGCTACCGGGTCTCCCCAGCCGATAGTGATGGAGGCACTGGACGAGGCT
GAAGGGCTCCAGGACTCACAGAGAGAGATGCCGCCACCCCTCCTCCCTCGCCGCCCTCAGATCCAGCT
CAGAAGCCACCACCTCGAGGCGCTGGGAGCCACTCCCTACTGTGAGGAGCAGCCTGTGCCTGTTGCTG
GCCTCACAGTTCCTGCTGGAACCCACGGCCTGGCTTACTCTGGGACGTGGGGAGTCCCCAGTCTGCTG
CTGGTCTTTCTGTCCGTGGGCTGGTCTCTGTTACCACCCTGGTGTGCACCTCTGAGGACACCCCA
GAGCCACCCACCCACTGCCCTGAGGACAGGCGCCAGTCAGTGAGCCGCCAGCCCTCCTTACCTAC
TCAGAGTGGATGGAGGAGAAGATCGAGGATGACTTCTGGACCTCGACCCGGTCCCCGAGACTCTGTG
TTTGATTGTGTGATGGACATCAAGCCTGAGGCTGACCCACCTCACTCACGTCAGTCCATGGGCTG
CAGGAGAGGAGGGTTCCAATGTCTCCCTGACCCTGGACATGTGCACTCCGGGCTGCAACGAGGAGGGC
TTTGGCTATCTCATGTCCCACGTGAGGAGTCCGCCCGGAGTACCTGCTCAGCGCTCCCGTGTCTC
CAAGCAGAAGAGCTTCATGAAAAGGCCCTGGACCCCTTCTGCTGCAGGCGGAATTTCTTTGAAATCCCC
ATGAACTTTGTGGATCCGAAAGAGTACGACATCCCTGGGCTGGTGCAGGAAACCAGTACAAAACATA
CTTCCCAACCCTCACAGCAGAGTGTGTCTGACCTCACCAGACCCTGACGACCCTCTGAGTTCCTACATC
AATGCCAACTACATCCGGGGCTATGGTGGGGAGGAGAAGGTGTACATCGCCACTCAGGGACCCATCGTC
AGCACGGTCGCCGACTTCTGGCGCATGGTGTGGCAGGAGCACACGCCATCATTGTATGATCACCAAC
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ATCACTGTGCAGAAAGTCATTACACGGGAGGATTACCGGCTGCGACTCATCTCCCTCAAGAGTGGGACT
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CCACTCTGCACCTGGTGCAGGAGTGGAGGAGGAGCCAGCAGGAGGGGCCCCACTGTGCCCCATC
ATCGTCCACTGCAGTGCAGGGATTGGGAGGACCGGCTGCTTATTGCCACCAGCATCTGCTGCCAGCAG
CTGCGGCAGGAGGGTGGTGGACATCCTGAAGACCAGTCCAGCTCCGTGAGGACAGGGGCGGCATG
ATCCAGACATGCGAGCAGTACCAGTTTGTGCACCAGTCTGAGCCTCTACGAAAAGCAGCTGTCCCAC
CAGTCCCCAGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence:

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

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MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLDQSQREMPPPPPSPSDPA
QKPPPRGAGSHSLTVRSSLCLFAASQFLLEPTAWLDSGTWGVPSLLLVLVSVGLVLVTTLVWHLRTPP
EPPTPLPPEDRRQSVSRQPSFTYSEWMEEKIEDDFLDLPVPETPVFDCVMDIKPEADPTSLTVKSMGL
QERRGSNVSLTDMCTPGCNEEGFYLMSPREESAREYLLSASRVLQAEELHEKALDPFLLQAEFFIIP
MNFVDPKEYDIPGLVRKNRYKTIIPNPHSRVCLTSPDPDPLSSYINANYIRGYGEEKVYIATQGPV
STVADFWRMVWQEHTPIIVMITNIEEMNEKCTEYWPEEQVAYDGVETVQKVIHTEDYRLRLISLSGT
EERGLKHYWFTSWPDQKTPDRAPLLHLVREVEEAAQEGPHCAPIIVHCSAGIGRTGCFIATSICCQQ
LRQEGVVDILKTTCLRQDRGGMIQTCEQYQFVHHVMSLYEKQLSHQSPE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
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Restriction Sites:

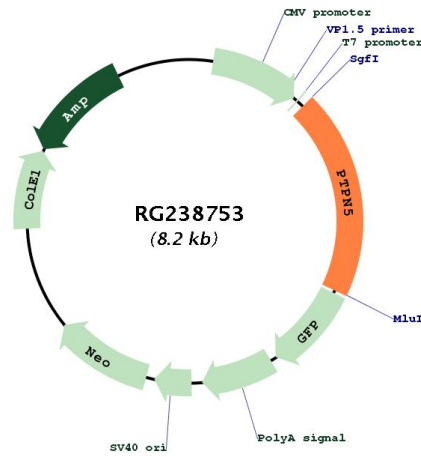
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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]