

Product datasheet for **MG225182**

Ptpn20 (NM_008978) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptpn20 (NM_008978) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptpn20
Synonyms: typ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225182 representing NM_008978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTCACCCAGGAAGGTTAGAGGAAAACTGGAAGAGATAATGATGAAGAGGAGGGTAATTCAGGTA
 ACCTGAATCTCCGCAACTCTTTGCCTTCATCGAGTCAGAAAATGACGCCTACGAAGCCGATTTTTGGGAA
 TAAAATGAATTCAGAGAATGTAAAACCTCCCATCACGTGCATTCTCAGATAAGTATGAGCTTGTTTAC
 CCAGAGCCTTTGGAAAGTGACACTGATGAGACTGTGTGGGATGTCAGTGACCGGTCTCTCAGAAACAGGT
 GGAACAGTATGGATTCAGAGACTGCAGGCGCTCAAAGACTGTCTCCCCAGTGCTTCTGGTAGTAGTAG
 GCTCTCAAAGGACTGAAACATCTGTCTCTGAAAAGGAGCTAACTCAGTTGGCTCAGATTTCGACCATTA
 ATATTCACAGTTCTGCACGGTCTGCTATGCGGGATTGTTTGAACACGCTTCAGAAAAAAGAAGAACTTG
 ATATCATCCGTGAGTTTTTGGAGTTAGAACAAATGACTCTGCCTGATGACTTCAATTCTGGGAATACACT
 ACAGAACAGAGATAAGAACAGATACCGAGATATCTTCCATATGATTCAACACGTGTTCTCTTGGAAAA
 AACAAGGACTACATCAACGCTAGTTATATTAGAATAGTAAATCATGAAGAAGAGTATTTTTATATTGCCA
 CTCAAGGACCATGCCAGAACTATAGAAGACTTTTGGCAATGGTTCTGGAAAAAATTTGTAATGTTAT
 TGCTATGATAACCAGAGAGATAGAATGTGGAGTTATCAAGTGTTACAGTTACTGGCCATTTCTCTGAAG
 GAGCCTTTGGAATTCGAACACTTTAGTGTCTTTCTGGAGACCTTTCATGTAACCTCAATTTCCACCGTTC
 GAGTATTTTCAGATTGTGAAGAAGTCCACAGGAAAGAGCCAATGTGTAACCACTTCAGTTCCACCAAGTG
 GCCAGACCATGGCACTCCTGCCTCAGCAGATTTTTTCATAAAAATATGTCCGTTATGTGAGGAAGAGCCAC
 ATTACAGGACCCCTCCTTGTTCAGTGTGGTGTAGGCCGAACAGGGGTGTTTCATATGTGTGGATG
 TTGTGTTCTCTGCCATCGAGAAGAACTACTCTTTTACATTATGAACATAGTGACCCAGATGAGAAAGCA
 GCGCTGTGGCATGATTCAAACCAAGGAGCAGTACCAGTTTTGTTATGAAATTGTGCTTGAAGTTCTTCAG
 AACCTTCTGGCTTTGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225182 representing NM_008978
Red=Cloning site Green=Tags(s)

MSSPRKVRGKTGRDNDEEEGNSGNLNLRLNSLPSSSQKMTPTKPIFGNKMNSENVKPSHLSFSKDYELVY
 PEPLESDTDETVWDVSDRSLRNRWNSMDESETAGPSKTVSPVLSGSSRLSKDTETSVSEKELTQLAQIRPL
 IFNSSARSAMRDCLNTLQKKELDIIREFLELEQMTLPDDFNSGNTLQNRDKNRYRDILPYDSTRVPLGK
 NKDYINASYIRIVNHEEEYFYIATQGPLPETIEDFWQMVLENNCNVIAMITREIECGVIKCYSPWPI
 SLK EPLFEHFVFLVETFHVTQYFTVRFQIVKSTGKSQCVKHLQFTKWPDHGTPASADFFIKYVRYVRKSH
 ITGPLLVHCSAGVGRGTGVFICVDVVFSAIEKNYSFDIMNIIVTQMRKQRCGMIQTKEQYQFCYEIVLEVLQ
 NLLALY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008978

ORF Size: 1278 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).

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_008978.2](#), [NP_033004.1](#)

RefSeq Size: 3090 bp

RefSeq ORF: 1281 bp

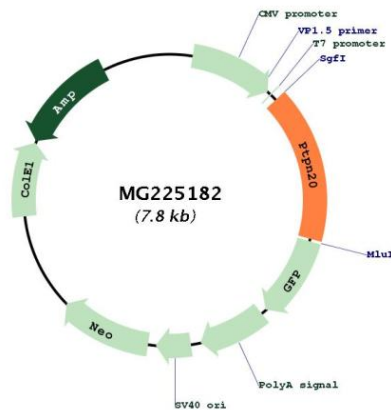
Locus ID: 19256

UniProt ID: [O55082](#)

Cytogenetics: 14 B

Gene Summary: Tyrosine-protein phosphatase targeted to sites of actin polymerization in response of varied extracellular stimuli. Has tyrosine phosphatase activity towards various tyrosyl phosphorylated substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225182