

Product datasheet for RC226517

PTPN18 (NM 001142370) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTPN18 (NM_001142370) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: PTPN18

Synonyms: BDP1; PTP-HSCF

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC226517 representing NM_001142370
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

CAGTCCTCGCCGGCGAGTTCAGCAAAAGGTGTGAGCGGTACTGGGCCCAGGAGCAGGAGCCACTGCAGAC TGGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCTCAAG GTCACATTCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGTCCTGGCCAGACCGTGGGGTCC CCAGCAGTCCTGACCACATGCTCGCCATGGTGGAGGAAGCCCGTCGCCTCCAGGGATCTGGCCCTGAACC CCTCTGTGTCCACTGCAGTGCGGGTTGTGGGCGAACAGGCGTCCTGTGCACCGTGGATTATGTGAGGCAG CTGCTCCTGACCCAGATGATCCCACCTGACTTCAGTCTCTTTGATGTGGTCCTTAAGATGAGGAAGCAGC GGCCTGCGGCCGTGCAGACAGAGGAGCAGTACAGGTTCCTGTACCACACGGTGGCTCAGATGTTCTGCTC CACACTCCAGAATGCCAGCCCCCACTACCAGAACATCAAAGAGAATTGTGCCCCACTCTACGACGATGCC CTCTTCCTCCGGACTCCCCAGGCACTTCTCGCCATACCCCGCCCACCAGGAGGGGTCCTCAGGAGCATCT CTGTGCCCGGGTCCCCGGGCCACGCCATGGCTGACACCTACGCGGTGCTGCAGAAGCGCGGGGCTCCAGC AGCAAGGTGACGCCGCGCCCCAGCGACCCGGGGCGCACGCGGAGGACGCGAGGGGGACGCTGCCTGGCC GCGTTCCTGCTGACCAAAGTCCTGCCGGATCTGGCGCCTACGAGGACGTGGCGGGTGGAGCTCAGACCGG TGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCGAAGGGTCCCCGGGACCCGCCTGCTGAGTGGACCCGG GTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Protein Sequence: >RC226517 representing NM_001142370

Red=Cloning site Green=Tags(s)

MSRSLDSARSFLERLEARGGREGAVLAGEFSKRCERYWAQEQEPLQTGLFCITLIKEKWLNEDIMLRTLK VTFQKESRSVYQLQYMSWPDRGVPSSPDHMLAMVEEARRLQGSGPEPLCVHCSAGCGRTGVLCTVDYVRQ LLLTQMIPPDFSLFDVVLKMRKQRPAAVQTEEQYRFLYHTVAQMFCSTLQNASPHYQNIKENCAPLYDDA LFLRTPQALLAIPRPPGGVLRSISVPGSPGHAMADTYAVVQKRGAPAGAGSGTQTGTGTGARSAEEAPLY SKVTPRAQRPGAHAEDARGTLPGRVPADQSPAGSGAYEDVAGGAQTGGLGFNLRIGRPKGPRDPPAEWTR V

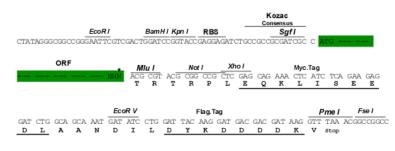
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3997 f09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001142370

ORF Size: 1053 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: <u>NM 001142370.1</u>, <u>NP 001135842.1</u>

 RefSeq ORF:
 1062 bp

 Locus ID:
 26469

 UniProt ID:
 Q99952

 Cytogenetics:
 2q21.1

Protein Families: Druggable Genome, Phosphatase

MW: 38.3 kDa

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP)

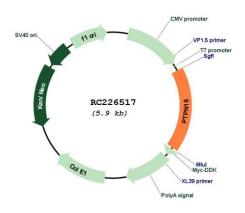
family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, the mitotic cycle, and oncogenic transformation. This PTP contains a PEST motif, which often serves as a protein-protein interaction domain, and

may be related to protein intracellular half-live. This protein can differentially

dephosphorylate autophosphorylated tyrosine kinases that are overexpressed in tumor tissues, and it appears to regulate HER2, a member of the epidermal growth factor receptor family of receptor tyrosine kinases. Two transcript variants encoding different isoforms have

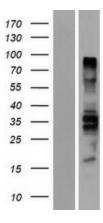
been found for this gene. [provided by RefSeq, Nov 2008]

Product images:



Circular map for RC226517





Western blot validation of overexpression lysate (Cat# [LY428059]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226517 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).