

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCGACGCTGGACTCGGCGGGAGCTTCTGGAGCGGCTGGAAGCGGGGGCGCCGGGAGGGGG  
CAGTCCTCGCGGCGAGTTCAGCAAAAGGTGTGAGCGGTACTGGGCCAGGAGCAGGAGCCACTGCAGAC  
TGGGCTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCTCAAG  
GTCACATTCAGAAGGAGTCCCCTTCTGTGTACCAGCTACAGTATATGTCCTGGCCAGACCGTGGGGTCC  
CCAGCAGTCTGACCACATGCTCGCCATGGTGGAGGAAGCCCGTCGCCTCCAGGGATCTGGCCCTGAACC  
CCTCTGTGTCCACTGCAGTGCAGGTTGTGGGCGAACAGGCGTCCGTGTGCACCGTGGATTATGTGAGGCGAG  
CTGCTCCTGACCCAGATGATCCCACCTGACTTCACTCTTTGATGTGGTCCCTAAGATGAGGAAGCAGC  
GGCCTGCGGCCGTGCAGACAGAGGAGCAGTACAGGTTCCCTGTACCACACGGTGGCTCAGATGTTCTGCTC  
CACACTCCAGAATGCCAGCCCCACTACCAGAACATCAAAGAGAATTGTGCCCACTCTACGACGATGCC  
CTCTTCTCCGGACTCCCAGGCACTTCTGCCATACCCCGCCACCAGGAGGGGTCTCAGGAGCATCT  
CTGTGCCCGGGTCCCAGGACGACGCGGACGCGGACGCGGGGCGCAGCGCGGAGGAGGCGCCGCTCTAC  
AGCAAGGTGACGCGCGGCCAGCGACCCGCGGCGCACGCGGAGGACGCGAGGGGAGCGCTGCCCTGGCC  
CGGTTCTGCTGACCAAAGTCTGCCGGATCTGGCGCCTACGAGGACGTGGCGGGTGGAGCTCAGACCGG  
TGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCAAGGGTCCCCGGGACCCGCTGCTGAGTGGACCCGG  
GTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001142370.1](#), [NP\\_001135842.1](#)

**RefSeq ORF:** 1062 bp

**Locus ID:** 26469

**UniProt ID:** [Q99952](#)

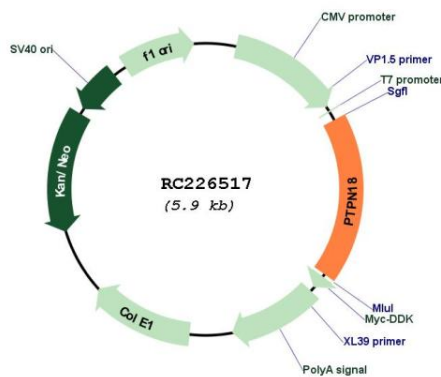
**Cytogenetics:** 2q21.1

**Protein Families:** Druggable Genome, Phosphatase

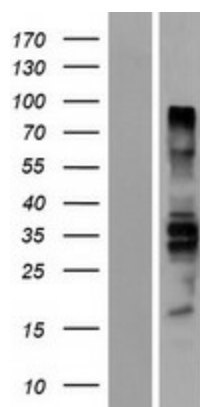
**MW:** 38.3 kDa

**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]).