

## Product datasheet for **RG226517**

### **PTPN18 (NM\_001142370) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN18 (NM_001142370) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPN18
Synonyms:	BDP1; PTP-HSCF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226517 representing NM_001142370 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCGACGCTGGACTCGGCGGGAGCTTCTGGAGCGGCTGGAAGCGGGGCGGCCGGGAGGGGG  
CAGTCCTCGCGGCGAGTTCAGCAAAAGGTGTGAGCGGTACTGGGCCAGGAGCAGGAGCCACTGCAGAC  
TGGGCTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCTCAAG  
GTCACATTCAGAAGGAGTCCCCTTCTGTGTACCAGCTACAGTATATGTCCTGGCCAGACCGTGGGGTCC  
CCAGCAGTCTGACCACATGCTCGCCATGGTGGAGGAAGCCCGTCGCCTCCAGGGATCTGGCCCTGAACC  
CCTCTGTGTCCACTGCAGTGCAGGTTGTGGGCGAACAGGCGTCCGTGTCACCGTGGATTATGTGAGGCAG  
CTGCTCCTGACCCAGATGATCCCACCTGACTTCAGTCTCTTTGATGTGGTCCCTAAGATGAGGAAGCAGC  
GGCCTGCGGCCGTGCAGACAGAGGAGCAGTACAGGTTCCGTGACACACCGGTGGCTCAGATGTTCTGCTC  
CACACTCCAGAATGCCAGCCCCACTACCAGAACATCAAAGAGAATTGTGCCCACTCTACGACGATGCC  
CTCTTCTCCGGACTCCCAGGCACTTCTGCCATACCCCGCCACCAGGAGGGGTCTCAGGAGCATCT  
CTGTGCCCGGGTCCC CGGCCACGCCATGGCTGACACCTACGCGTGGTGCAGAAGCGGGGGTCCAGC  
GGGCGCCGGGAGTGGGACGCAGACGGGACGGGGACGGGGCGCGCAGCGCGGAGGAGGGGACGCTGCC  
AGCAAGGTGACGCCGCGCCAGCGACCCGGGGCGCACGCGAGGACGCGAGGGGACGCTGCCGGCC  
CGGTTCTGCTGACCAAAGTCTGCCGGATCTGGCGCCTACGAGGACGTGGCGGGTGGAGCTCAGACCGG  
TGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCAAGGGTCCCCGGGACCCGCTGCTGAGTGGACCCGG  
GTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG226517 representing NM\_001142370  
 Red=Cloning site Green=Tags(s)

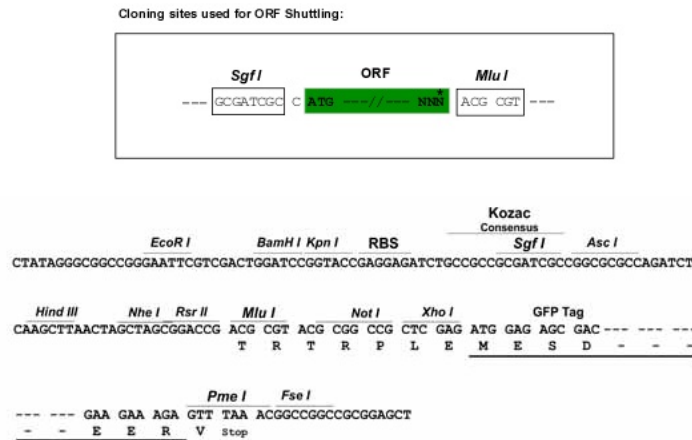
MSRSLDSARSFLERLEARGGREGAVLAGEFSKRCERYWAQEQEPLQTGLFCITLIIKEKWLNEDIMLRTLK  
 VTFQKESRSVYQLQYMSWPDGRVSPDPHMLAMVEEARLQSGPEPLCVHCSAGCGRTGVLCTVDYVRQ  
 LLLTQMIPPDFSFLFDVVLKMRKQRPAAVQTEEQYRFLYHTVAQMFCSLQNASPHYQNIKENCAPLYDDA  
 LFLRTPQALLAIPRPPGGVLRISIVPGSPGHAMADTYAVVQKRGAPAGAGSGTQTGTGTGARSAAEAPLY  
 SKVTPRAQRPGAHAEDARGTLPGRVPADQSPAGSGAYEDVAGGAQTGGLGFNLRIGRPKGPRDPPAEWTR  
 V

TRTRPLE - GFP Tag - V

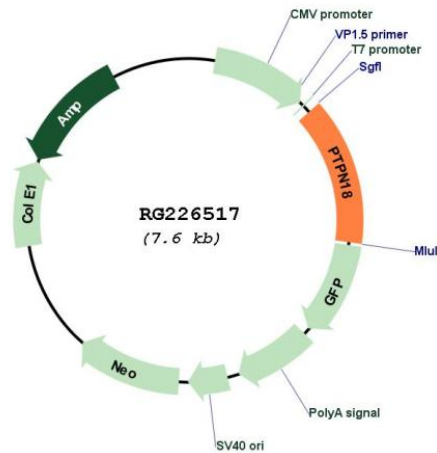
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001142370

<b>ORF Size:</b>	1059 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142370.1</a> , <a href="#">NP_001135842.1</a>
<b>RefSeq Size:</b>	3365 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	26469
<b>UniProt ID:</b>	<a href="#">Q99952</a>
<b>Cytogenetics:</b>	2q21.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Gene Summary:</b>	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-life. 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]