

## Product datasheet for MR221777

### Ptprj (NM\_008982) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprj (NM_008982) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptprj
Synonyms:	AI450271; BET; Byp; CD148; DEP-1; Ptpb2; PTPbeta2; RPTPJ; Scc-1; Scc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221777 representing NM_008982 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR221777 representing NM\_008982  
 Red=Cloning site Green=Tags(s)

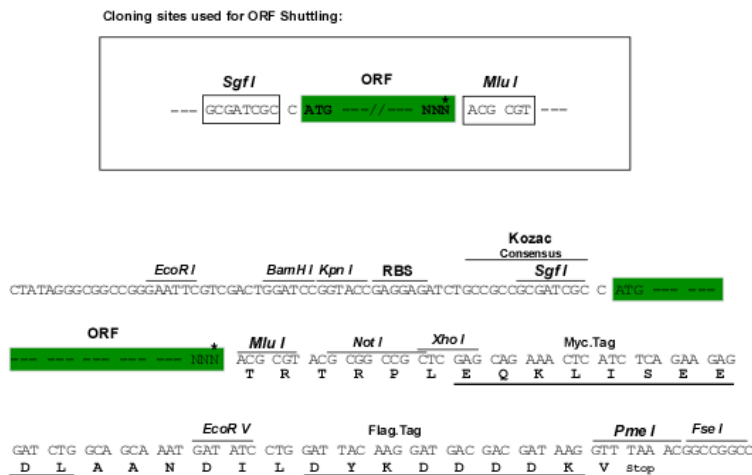
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9001\\_d05.zip](https://cdn.origene.com/chromatograms/mm9001_d05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



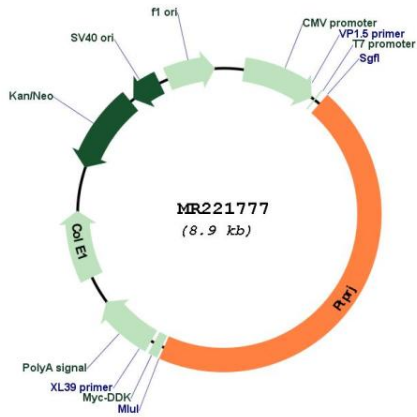
\* The last codon before the Stop codon of the ORF

ACCN: NM\_008982

ORF Size: 4050 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_008982.5</a> , <a href="#">NP_033008.3</a>
<b>RefSeq Size:</b>	7634 bp
<b>RefSeq ORF:</b>	4053 bp
<b>Locus ID:</b>	19271
<b>UniProt ID:</b>	<a href="#">Q64455</a>
<b>Cytogenetics:</b>	2 50.19 cM
<b>MW:</b>	149 kDa
<b>Gene Summary:</b>	<p>Tyrosine phosphatase which dephosphorylates or contributes to the dephosphorylation of CTNND1, FLT3, PDGFRB, MET, RET, KDR, LYN, SRC, MAPK1, MAPK3, EGFR, TJP1, OCLN, PIK3R1 and PIK3R2. Plays a role in cell adhesion, migration, proliferation and differentiation. Involved in vascular development. May be involved in the mechanism of contact inhibition of cell growth. Regulator of macrophage adhesion and spreading. Positively affects cell-matrix adhesion. Positive regulator of platelet activation and thrombosis. Negative regulator of cell proliferation. Negative regulator of PDGF-stimulated cell migration; through dephosphorylation of PDGFR. Positive regulator of endothelial cell survival, as well as of VEGF-induced SRC and AKT activation; through KDR dephosphorylation. Negative regulator of EGFR signaling pathway; through EGFR dephosphorylation. Enhances the barrier function of epithelial junctions during reassembly. Negatively regulates T-cell receptor (TCR) signaling. Upon T-cell TCR activation, it is up-regulated and excluded from the immunological synapses, while upon T-cell-antigen presenting cells (APC) disengagement, it is no longer excluded and can dephosphorylate PLCG1 and LAT to down-regulate prolongation of signaling.</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR221777