

## Product datasheet for RC207873

### LAR (PTPRF) (NM\_130440) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAR (PTPRF) (NM_130440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPRF
Synonyms:	BNAH2; LAR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC207873 representing NM_130440 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>RC207873 representing NM\_130440  
 Red=Cloning site Green=Tags(s)

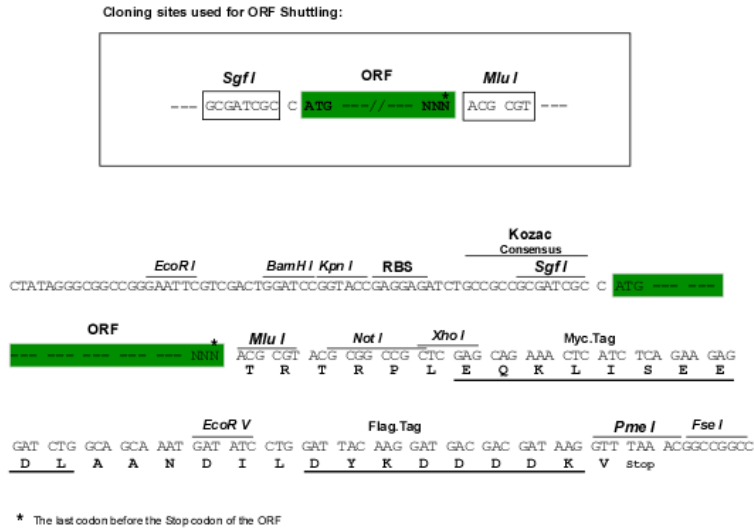
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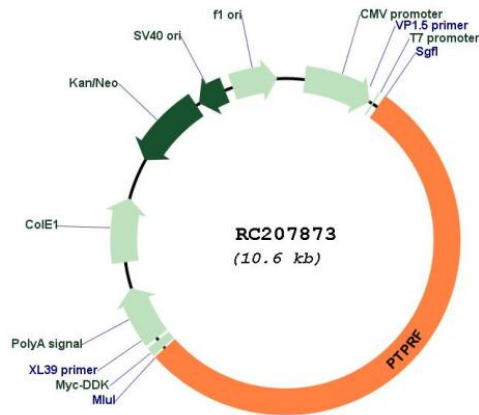
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_130440

ORF Size: 5694 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_130440.3</a>
<b>RefSeq Size:</b>	7706 bp
<b>RefSeq ORF:</b>	5697 bp
<b>Locus ID:</b>	5792
<b>UniProt ID:</b>	<a href="#">P10586</a>
<b>Cytogenetics:</b>	1p34.2
<b>Domains:</b>	Y_phosphatase, ig, PTPc_motif, IGc2, IG, FN3
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Cell adhesion molecules (CAMs), Insulin signaling pathway
<b>MW:</b>	209.1 kDa
<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, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was shown to function in the regulation of epithelial cell-cell contacts at adherents junctions, as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq, Jul 2008]