

Product datasheet for MR222130

Ptprb (NM_029928) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ptprb (NM_029928) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ptprb |
| Synonyms: | 3230402H02Rik; C130094E24; Ptpz; Rptpb; VE-PTP; Veptp |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR222130 representing NM_029928 Red=Cloning site Blue=ORF Green=Tags(s) |

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GCC**CGATCGCC**

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Protein Sequence:

>MR222130 representing NM_029928
 Red=Cloning site Green=Tags(s)

MLRHGALTALWITLSVVQTVGVAEQVKCNFTLLESRVSSLSASIQWRTFASPCNFSLIYSSDTS GPMWCHP
 IRIDNFTYGCNPKDLQAGTVYNFRIVSLDGEESTLVLQTDPLPPARFEVNRKTA TTLQVRWTPSSGKV
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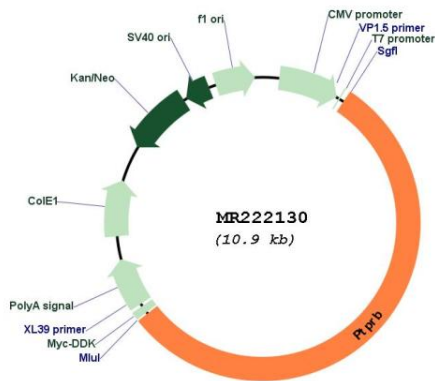
Restriction Sites:

Sgfl-MluI

RefSeq: [NM_029928.2, NP_084204.2](#)
 RefSeq Size: 11912 bp
 RefSeq ORF: 5997 bp
 Locus ID: 19263
 UniProt ID: [B2RU80](#)
 Cytogenetics: 10 D2
 MW: 224.9 kDa

Gene Summary: Plays an important role in blood vessel remodeling and angiogenesis. Not necessary for the initial formation of blood vessels, but is essential for their maintenance and remodeling. Can induce dephosphorylation of TEK/TIE2, CDH5/VE-cadherin and KDR/VEGFR-2. Regulates angiopoietin-TIE2 signaling in endothelial cells. Acts as a negative regulator of TIE2, and controls TIE2 driven endothelial cell proliferation, which in turn affects blood vessel remodeling during embryonic development and determines blood vessel size during perinatal growth. Essential for the maintenance of endothelial cell contact integrity and for the adhesive function of VE-cadherin in endothelial cells and this requires the presence of plakoglobin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222130