

## Product datasheet for **RR210156**

### **Pth1r (NM\_020073) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pth1r (NM_020073) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pth1r
Synonyms:	Pthr; Pthr1; PTHrel
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR210156 representing NM\_020073  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGCCGCCCGGATCGCACCCAGCCTGGCGCTCCTACTCTGTGCCAGTGCTCAGCTCCGCATATG  
 CGCTGGTGGATGCGGACGATGTCTTTACCAAAGAGGAACAGATTTTCTGCTGCACCGTGCCAGGCGCA  
 ATGTGACAAGCTGCTCAAGGAAGTTCTGCACACAGCAGCCAACATAATGGAGTCAGACAAGGGCTGGACA  
 CCAGCATCTACGTCAAGGAAGCCAGGAAAGAGAAGGCATCGGGAAAGTTCTACCCTGAGTCTAAAGAGA  
 ACAAGGACGTGCCACCGGCAGCAGGCGCAGAGGGCGTCCCTGTCTGCCGAGTGGGACAACATCGTTTG  
 CTGGCCATTAGGGGACCCAGGTGAAGTGGTGGCAGTACCTTGCCGATTACATTTATGACTTCAATCAC  
 AAAGGCCATGCCTACAGACGCTGTGACCGCAATGGCAGCTGGGAGGTGGTCCAGGGCACAACCGGACGT  
 GGGCCAACACAGCGAGTGCCTCAAGTTCATGACCAATGAGACCGGGAACGGGAGGTATTTGACCGCCT  
 AGGCATGATCTACACCGTGGGATACTCCATGTCTCTCGCTCCCTCACGGTGGCTGTGCTCATCCTGGCC  
 TATTTTAGGCGGCTGCACTGCACGCGCAACTACATCCACATGCACATGTTCTGTGCTTTATGCTGCGCG  
 CCGCGAGCATCTTCGTGAAGGACGCTGTGCTCTACTCTGGCTTACGCTGGATGAGGCGGAGCGCCTCAC  
 AGAGGAAGAGTTGCACATCATCGCGCAGGTGCCACCTCCGCCGGCCGCTGCCGCCGATAGGCTACGCTGGC  
 TGCCCGGTGGCGGTGACCTTCTTCTCTACTTCTGGCTACCAACTACTACTGGATTCTGGTGGAGGGGC  
 TGTACTTGACAGCCTCATCTTCATGGCCTTTTCTCAGAGAAGAAGTACCTGTGGGGCTTACCATCTT  
 TGGCTGGGGTCTACCGGCTGTCTTCGTGGCTGTGTGGTGGTGTGAGCAACCTTGGCCAACACTGGG  
 TGCTGGGATCTGAGCTCCGGGCACAAGAAGTGGATCATCCAGTGCCCATCTGGCATCTGTTGTGCTCA  
 ACTTCATCCTTTTATCAACATCATCCGGGTGCTTGGCACTAAGCTTCGGGAGACCAATCGGGCCGGTGTG  
 TGACACCAGGCAGCAGTACCGGAAGCTGCTCAGGTCCACGTTGGTGTCTGCGCGCTCTTTGGTGTCCAC  
 TACACCGTCTTACGGCCTTGGCGTACACCGAGGTCTCAGGGACATTGTGGCAGATCCAGATGCATTATG  
 AGATGCTCTTCAACTCCTCCAGGGATTTTTTGTGCCATCATATACTGTTTCTGCAATGGTGGAGGTGCA  
 GGCAGAGATTAGGAAGTCATGGAGCCGCTGGACTGCGGTTGGACTTCAAGCGCAAAGCACGAAGTGGG  
 AGTAGCAGCTACAGCTATGGCCAATGGTGTCTCACACGAGTGTGACCAATGTGGCCCCCGTGCAGGAC  
 TCAGCCTCCCCCTCAGCCCCGCTGCCTCCTGCCACTACCAATGGCCACTCCAGCTGCCTGGCCATGC  
 CAAGCCAGGGCTCCAGCCACTGAGACTGAAACCCTACCAGTCACTATGGCGGTTCCAAGGACGATGGA  
 TTCTTAAACGGCTCCTGCTCAGGCTGGATGAGGAGGCTCCGGGTCTGCGCGGCCGCTCCATTGTTGC  
 AGGAAGAATGGGAAACAGTCATGAGGAAGAATGGGAAACAGTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210156 representing NM\_020073  
 Red=Cloning site Green=Tags(s)

MGAARIAPSLALLLCCPVLSSAYALVDADDVFTKEEQIFLLHRAQAQCDKLLKEVLHTAANIMESDKGWT  
 PASTSGKPRKEKASGKFYPEKENKDVPTGSRRRGRPCLPEWDNIVCWPLGAPGEVAVPCPDYIYDFNH  
 KGHAYRRCDRNGSWEVVPGHNRWANYSECLKFMTNETREREVFDRLGMIYTVGYSMSLASLTVAVLILA  
 YFRRLHCTRNYIHMHMFLSFMLRAASIFVKDAVLYSGFTLDEAERLTEEELHIIAQVPPPPAAAAVGYAG  
 CRVAVTFFLYFLATNYYWILVEGLYLHSLIFMAFFSEKKYLWGFIFGWGLPAVFAVWVGVVRLANTG  
 CWDLSSGHKKWIIQVPILASVVLNFIILFINIIRVLATKLRNAGRCDTRQYRKLRLSTLVLVPLFGVH  
 YTVFMALPYTEVSGTLWQIQMHYEMLFNSFQGFVAIIYCFCNGEVQAEIRKSWSRWTLALDFKRKARSG  
 SSSYSYGPMSVHTSVTNVGPRAGLSLPLSPRLPPATTNGHSQLPGHAKPGAPATETETLPVTMAVPKDDG  
 FLNGSCSGLDEEASGSARPPPLLQEEWETVMRKNKGQS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1561\\_f03.zip](https://cdn.origene.com/chromatograms/ja1561_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020073

**ORF Size:** 1773 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**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 Size:** 1836 bp

**RefSeq ORF:** 1776 bp

**Locus ID:** 56813

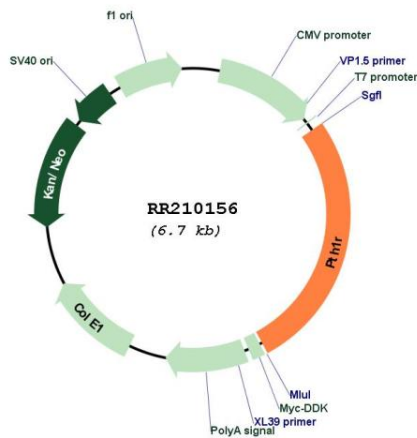
**UniProt ID:** [P25961](#)

**Cytogenetics:** 8q32

**MW:** 66.3 kDa

**Gene Summary:** Receptor for parathyroid hormone and for parathyroid hormone-related peptide. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR210156