

Product datasheet for **RR214491**

Pth2r (NM_031089) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pth2r (NM_031089) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pth2r
Synonyms:	Pthr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214491 representing NM_031089
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGGCTGGAAGCTTTACCCTACATCTGTGGATGGCTGATTCTCCGTAGTGTCTCCTGGTTGGAG
 CGCAGCTGGATTCTGATGGCACCATCACTATAGAGGAGCAGATTGTTCTTGTATGAAGGCTAAAAATGCA
 ATGTGAACTCAACATCACAGCTCAGTTCGAAGAAGGAGAGGGCAATTGCTTCCCAGAATGGGATGGACTC
 ATTTGTTGGCCTAGAGGAACGGCGGGGAAAAACGTGAGCTATGCCCTGTCCTTCATATGTTTATGATTTC
 ATCACAAGGAGTTGCTTCCGGCACTGCACTCCCAAYGGAACGTGGGATTTTATTCATGGCTCAAATAA
 AACCTGGGCTAACTTTCAGACTGCTTCTGCAGCCTGATATCAACATAGGAAAGCAAGAGTTCTTTGAA
 AACCTCTACATCTGTACACTGTCGGCTATTCCATCTCTTTGGCTCCTGGCAGTAGCCATTCTCATCA
 TTGGCTATTTAGGCGGTTGCATTGCACTAGGAACTATATCCACTGCATTTGTTTGTGCTTCATGCT
 GAGAGCCAYGAGCATCTTTGTCAAGGACAGAGTAGCCAGGCTCACCTGGGAGTAGAGGCACTGCAGTCT
 CTGGTGATGCAGGGTACCTTCAGAACTTCATTGGAGGACCATCTGTGGACAAATCTCAGTATGTGGGGT
 GCAAGATCGCTGTCGTGATGTTATTTATTTCTGGCTACAAACTATTATTGGATCCTGGTGGAAAGGGCT
 CTACCTGCATAACTTAATCTTTGTGCTTTCTTTCTGACACCAAATACCTGTGGGGCTTCATCTTGATA
 GGCTGGGGATTTCCAGCGGATTTGTTGTGGCCTGGGCAGTAGCACGAGCCACTCTGGCGGATACCAGGT
 GTTGGGAAGTCTAGTGTGGAGACAGGTGGATTTACMGGMTCCAATCTTGGCGGCTATTGGGCTGAATTT
 TATTCTGTTCTGAATACAGTTAGAGTCTTGTCTACAAAAATTTGGGAGACCAATGCCTGTGGGCATGAC
 ATGAGAAAGCAGTACAGGAACTGGCTAAGTCAACGCTGGTCTGGTGTGTTGGTGTGCATTACA
 TCGTGTTCATCTGCCAGCCGACTCCTTCTCGGGCTCTGGTGGGAGATCCGCATGCATCGCAGCTCTT
 CTCAACTCCTTCCAGGATTCTTCGTGTCTATTGTCTATTGCTACTGCAACGGAGAGGTACAGGCTGAG
 GTGAAGAAGACCTGGACTCGTTGGAATCTGTCCATCGACTGAAAAAGGCGCCGCTTGTGGCGGCCACA
 GGTACGGCTCGGTGCTCACCCTGTACACACAGCACCAGCAGCCAGTCACAGATGGGACCAAGCACACG
 CCTGGTGTCTATCTTAGCAAACCCGCCAAGACTGCCTGCAGACAGATCGACAGTCATGTGACTCTACCT
 GGCTACGCTGGAGTAGTCTGAGCAGGACTGTCAACCACAATCTACCCCGAGGAGACTAAAAAGGTC
 ATGGGCGACAGGAAGATGATAGTCCAGTGGGGAGTCTTCCAGGCCAGTAGCATTACCATAGACACGGA
 AGGATGCAAGGGAGAATCCACCCTATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214491 representing NM_031089
 Red=Cloning site Green=Tags(s)

MPWLEALPYICGWLILRSCLLVGAQLDSDGTITIEEQIVLVMKAKMQCELNITAQFQEGEGNCFPEWDGL
 ICWPRGTAGKTSAMPSPSYVDFNHKGVAFRHCTPXGTWDFIHGSNKTWANYSDCFLQPDINIGKQEFFE
 NLYIILYTVGYSISFGLAVAILIIGYFRRLHCTRNYIHLHLFVSFMLRAXSIFVKDRVAQHLGVEALQS
 LVMQGDQNFIGGPSVDKSYVVGCKIAVVMFIYFLATNYWILVEGLYLHNLIFVSFFSDTKYLWGFILI
 GWGFPVAVVAVARATLADTRCWELSAGDRWIYXXPIAAIGLNFILFLNTVRLAXKIWETNAVGH
 MRKQYRKLAKSTLVLVVFGVHYIVFICQPHSFSLWWEIRMHCELFNSFQGFVSVIVYCNGEVQAE
 VKKTWTRWNLSDWKKAPPCGGHRYGSLVLTVTHTSSSQSMGPSTRLLVLISSKPAKTACRQIDSHVTL
 P
 GYVWSSEQDCQPSTPEETKKGHGRQEDDSPVGESSRPVAFITIDTEGCKGESHP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

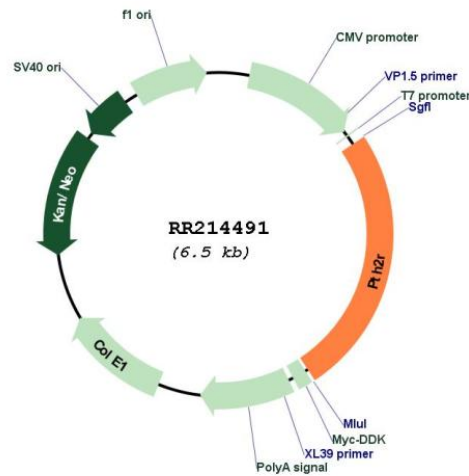
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_031089
ORF Size:	1638 bp
OTI Disclaimer:	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:	<ol style="list-style-type: none">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:	NM_031089.2 , NP_112351.1
RefSeq Size:	1975 bp
RefSeq ORF:	1641 bp
Locus ID:	81753
UniProt ID:	P70555
Cytogenetics:	9q32
MW:	61.8 kDa
Gene Summary:	binds parathyroid hormone and induces cAMP accumulation [RGD, Feb 2006]