

Product datasheet for **MR218809**

Pth2r (NM_139270) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pth2r (NM_139270) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pth2r
Synonyms:	Pthr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218809 representing NM_139270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTGGCTGGAGACTTTCACCTACATTTGTGGATGGCTGATTCTCAGTAGCTGTCTCCTGGTTAGAG
 CGCAGCTGGATTCTGACGGCACCATCACTATAGAAGAGCAGATTGTTCTTGTATGAAGGCTAAAAATGCA
 GTGTGAACTTAACATCACAGCCCAGCTCCAAGAAGGAGAAGGCAATTGCTTCCCAGAATGGGATGGGATC
 ATTTGTTGGCCCAGAGGAACAGTGGGAAAAATGTCAGCTGTGCCTTGCCTCCGTATGTTTACGACTTCA
 ATCATAAAGGAGTTGCTTCCGGCACTGCACCCCAATGGGACGTGGGATTCTATTCATGGCTCAAATAA
 AACCTGGGCTAACTTTCAGACTGCTTCTGCAGCCTGATATCAACATAGGAAAGCAAGAGTTCTTTGAA
 AGCCTCTACATCCTGTACACTGTGGCTACTCCATCTCTTTGGCTCCTGGCTGTAGCCATTCTCATT
 TTGGCTACTTCAGGCGATTGCATTGCACGAGGAATATCCATTTGCATTTGTCGTGCTCTTCATGCT
 GAGAGCCATGAGCATCTTTGTCAAGGACAGAGTAGCCAGGCTCACCTGGGAGTAGAGGCACTGCAGTCT
 CTGGTGATGCAGGGTACCTTCAGAACTTCATTGGAGGACCATCTGTGGACAAATCTCAGTATGTGGGGT
 GCAAGATCGCTGTCGTGATGTTATTTATTTCTGGCTACAAACTATTACTGGATCCTGGTGAAGGGCT
 CTACCTGCACAACCTAATCTTTGTGCTTTCTTTCCGACACCAATACCTGTGGGGCTTCATCTCGATA
 GGCTGGGGATTTCCAGCAGTATTTGTTGTGGCCTGGGAGTGGCAGGCACTCTGGCGGATACCAGGT
 GTTGGGAACCTTAGTGCTGGAGACAGGTGGATTTACCAGGCTCCGATCTTAGCTGCTATTGGGCTGAATTT
 TATTCTGTTCTGAATACAGTTAGAGTTCTTGTACCAAAATTTGGGAAACCAATGCGGTTGGGCATGAC
 ATGAGAAAGCAGTACAGGAACTGGCTAAGTCAACTGGTCTGGTGTGGTATTTGGCGTGCATTACA
 TCGTGTGTTGCTGCCAGCCGACTCCTTCTCTGGGCTCTGGTGGGAGATCCGATGCATGTGAACCTTT
 CTCAACTCCTTCCAGGGTTTCTCGTGTCTATTGTCTATTGCTACTGCAATGGAGAGGTGCAGGCTGAG
 GTGAAGAAGATGTGGACTCGATGGAATCTGTCCATCGACTGGAAGGGCGCCGCTTGTGGCGGCCAAA
 GGTACGGCTCGGTGCTCACCCTGTCACTCACAGCACCAGCAGCCAGTCACAGATGGGGGCAAGCACGCG
 CCTGGTGTCTATCTGGCAAACCCACCAAGAATGCCTGCAGACAGATCGACAGCCATGTGACTCTACCT
 GGCTATGTCTGGAGTAGTTCTGAGCAGGACTGCCAAACACTCGCCCCCGAGGAGACTAAGGAAGGTC
 ACAGGCGACAGGGAGATGATAGTCCAGTATGGAGTCTTCCAGGCCAGTGGCGTTACCCTAGACACTGA
 AGGATGCAAGGGAGAAACCCATCTATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218809 representing NM_139270
 Red=Cloning site Green=Tags(s)

MAWLETFTYICGWLILSSCLLVRAQLDSDGTITIEEQIVLVMKAKMQCELNITAQLQEGENCFPEWDGI
 ICWPRGTVGKMSAVPCPPYVYDFNHKGVAFRHCTPNGTWDSIHGSNKTWANYSDCFLQPDINIGKQEFFE
 SLYIlyTVGYSISFGLAVAILIIGYFRRLHCTRNYIHLHLFVSFMLRAMSIFVKDRVAQAHLGVEALQS
 LVMQGDQLQNFIGGPSVDKSQYVVGCKIAVVMFIYFLATNYWILVEGLYLHNLIFVSFFSDTKYLWGFISI
 GWGFPAVFFVAVAVARATLADTRCWELSAGDRWIYQAPILAAIGLNFILFLNTRVRLATKIWETNAVGH
 MRKQYRKLAKSTLVLVLFVGVHYIVFVCPHSFSLWWEIRMHCELFNSFQGFVSVIVCYCNGEVQAE
 VKKMWTRWNLSDWKRAPPCCGQRYGSVLTTVTHSTSSQSMGASTRLVLSGKPTKNACRQIDSHVTL
 GYVWSSSEQDCQTHSPPEETKEGHRHQDDSPVMESSRPVAFITLDTGCKGETHPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_e06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_139270

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:

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_139270.2](#), [NP_644676.1](#)

RefSeq Size: 2414 bp

RefSeq ORF: 1641 bp

Locus ID: 213527

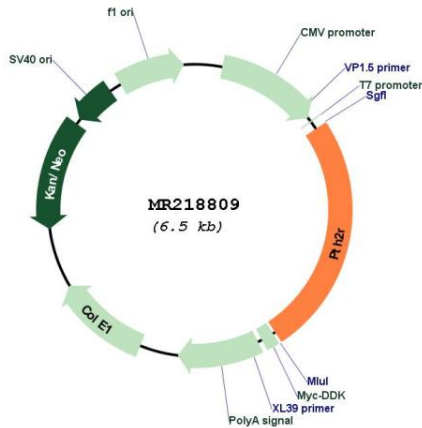
UniProt ID: [Q91V95](#)

Cytogenetics: 1 33.05 cM

MW: 62.4 kDa

Gene Summary: This is a specific receptor for parathyroid hormone. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. PTH2R may be responsible for PTH effects in a number of physiological systems. It may play a significant role in pancreatic function. PTH2R presence in neurons indicates that it may function as a neurotransmitter receptor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218809