

Product datasheet for **RC207775**

Parathyroid Hormone Receptor 2 (PTH2R) (NM_005048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parathyroid Hormone Receptor 2 (PTH2R) (NM_005048) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Parathyroid Hormone Receptor 2
Synonyms:	PTHR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC207775 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCGGGCTGGGGCGTCGCTCCACGCTGGGGTTGGCTAATGCTCGCAGCTGCCTCCTGGCCAGAG
 CCCAGCTGGATTCTGATGGCACCATTACTATAGAGGAGCAGATTGCTTGTGCTGAAAGCGAAAGTACA
 ATGTGAACTCAACATCACAGCTCAACTCCAGGAGGAGAAGTAATTGTTCCCTGAATGGGATGGACTC
 ATTTGTTGGCCAGAGGAACAGTGGGAAAAATATCGGCTGTTCCATGCCCTCCTTATATTTATGACTTCA
 ACCATAAAGGAGTTGCTTCCGACACTGTAAACCCAAATGGAACATGGGATTTTATGCACAGCTTAAATAA
 AACATGGGCCAATTATTCAGACTGCCTTCGCTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTC
 TTTGAACGCTCTATGTAATGTATACCGTTGGCTACTCCATCTCTTTGGTTCCTGGCTGTGGCTATTC
 TCATCATTGGTTACTTCAGACGATTGCATTGCACTAGGAACTATATCCACATGCCTTATTTGTGCTTT
 CATGCTGAGAGCTACAAGCATCTTTGTCAAAGACAGAGTAGTCCATGCTCACATAGGAGTAAAGGAGCTG
 GAGTCCCTAATAATGCAGGATGACCCACAAAATCCATTGAGGCAACTTCTGTGGACAAATCACAATATA
 TCGGGTGAAGATTGCTGTTGTGATGTTATTTACTTCCCTGGCTACAAATATTATTGGATCCTGGTGGGA
 AGGTCTCTACCTGCATAATCTCATCTTTGTGGCTTTCTTTTCGGACACCAATACCTGTGGGGCTTCATC
 TTGATAGGCTGGGGGTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCAGCAGCAACTCTGGCTGATG
 CGAGGTGCTGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCACCGATCTTAGCAGCTATTGG
 GCTGAATTTTATCTGTTTCTGAATACGGTTAGAGTCTAGCTACCAAAATCTGGGAGACCAATGCAGTT
 GGGCATGACACAAGGAAGCAATACAGGAACTGGCCAAATCGACACTGGTCTGGTCTAGTCTTTGGAG
 TGCATTACATCGTGTTCGTATGCCTGCCTCACTCCTTCACTGGGCTCGGGTGGGAGATCCGCATGCCTG
 TGAGCTCTTCTCAACTCCTTTCAGGGTTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGAGGTT
 CAGGCAGAGGTGAAGAAGATGTGGAGTCCGTGGAACTCTCCGTGGACTGAAAAGGACACCGCCATGTG
 GCAGCCGAGATGCGGCTCAGTGCTCACCACCGTGACGCACAGCACCAGCAGCCAGTACAGGTGGCGGC
 CAGCACACGCATGGTGCTTATCTCTGGCAAAGCTGCCAAGATCGCCAGCAGACAGCCTGACAGCCACATC
 ACTTTACCTGGCTATGTCTGGAGTAACTCAGAGCAGGACTGCCTGCCACACTCTTCCACAGGAGACCA
 AGGAAGATAGTGGGAGGCAGGGAGATGATATTCTAATGGAGAAGCCTCCAGGCCTATGGAATCTAACC
 AGACACTGAAGGATGCCAAGGAGAACTGAGGATGTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207775 protein sequence
 Red=Cloning site Green=Tags(s)

MAGLGASLHVWGLMLGSCLLARAQLDSDGTITIEEQIVLVKAKVQCELNITAQLQEGENCFPEWDGL
 ICWPRGTVGKISAVPCPPYIYDFNHKGVAFRHCNPNGTWDFMHSLNKTNWANSYDCLRFLQPDISIGKQEF
 FERLYVMYTVGYSISFGSLAVAILIIGYFRRHLHCTRNYIHMHLFVSFMLRATSIFVKDRVVHAHIGVKEL
 ESLIMQDDPQNSIEATSVDKSQYIGCKIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGF
 LIGWGFPAAFVAAWAVARATLADARCWELSGDIKWIYQAPILAAIGLNFILFLNTVRVLATKIWETNAV
 GHDTRKQYRKLAKSTLVLVVFGVHYIVFVCLPHSFTGLGWEIRMHCELFFNSFQGFVSVIYCYCNGEV
 QAEVKKMWSRWNLSDWKRTPPCGSRRCGSVLTVTHTSSQSQAASRMVLISGKAAKIASRQPDSDHI
 TLPGYVWSNQDCLPHSFHEETKEDSGRQDDILMEKPSRPMESNPDEGCQGETEDVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6147_b11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_005048

ORF Size: 1650 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_005048.4](#)
RefSeq Size: 2734 bp

RefSeq ORF: 1653 bp

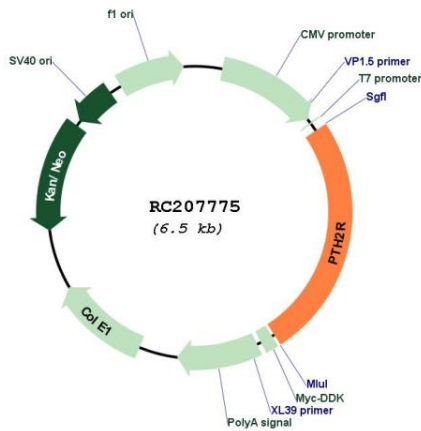
Locus ID: 5746

UniProt ID: [P49190](#)

Cytogenetics: 2q34
Domains: 7tm_2, HormR
Protein Families: Druggable Genome, GPCR, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction
MW: 62.2 kDa

Gene Summary: The protein encoded by this gene is a member of the G-protein coupled receptor 2 family. This protein is a receptor for parathyroid hormone (PTH). This receptor is more selective in ligand recognition and has a more specific tissue distribution compared to parathyroid hormone receptor 1 (PTH1R). It is activated only by PTH and not by parathyroid hormone-like hormone (PTH1H) and is particularly abundant in brain and pancreas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RC207775