

Product datasheet for **RG207775**

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:	TurboGFP
Symbol:	Parathyroid Hormone Receptor 2
Synonyms:	PTHR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207775 representing NM_005048
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGGCTGGGGCGTCGCTCCACGCTCGGGTTGGCTAATGCTCGGCAGCTGCCTCCTGGCCAGAG
 CCCAGCTGGATTCTGATGGCACCATTACTATAGAGGAGCAGATTGCCTTGTGCTGAAAGCGAAAGTACA
 ATGTGAACTCAACATCACAGCTCAACTCCAGGAGGAGAAGTAATTGTTCCCTGAATGGGATGGACTC
 ATTTGTTGGCCAGAGGAACAGTGGGAAAAATATCGGCTGTTCCATGCCCTCCTTATATTTATGACTTCA
 ACCATAAAGGAGTTGCTTCCGACACTGTAACCCCAATGGAACATGGGATTTTATGCACAGCTTAAATAA
 AACATGGGCCAATTATTCAGACTGCCTTCGCTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTC
 TTTGAACGCTCTATGTAATGTATACCGTTGGCTACTCCATCTCTTTGGTTCCTGGCTGTGGCTATTC
 TCATCATTGGTTACTTCAGACGATTGCATTGCACTAGGAACTATATCCACATGCCTTATTTGTGCTTT
 CATGCTGAGAGCTACAAGCATCTTTGTCAAAGACAGAGTAGTCCATGCTCACATAGGAGTAAAGGAGCTG
 GAGTCCCTAATAATGCAGGATGACCCACAAAATCCATTGAGGCAACTTCTGTGGACAAATCACAAATA
 TCGGGTGAAGATTGCTGTTGTGATGTTTATTTACTTCCCTGGCTACAAATTATTATTGGATCCTGGTGGGA
 AGGTCTCTACCTGCATAATCTCATCTTTGTGGCTTTCTTTTCGGACACCAATACCTGTGGGGCTTCATC
 TTGATAGGCTGGGGGTTCCAGCAGCATTTGTTGCAGCATGGGCTGTGGCAGCAGCAACTCTGGCTGATG
 CGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCACCGATCTTAGCAGCTATTGG
 GCTGAATTTTATCTGTTTCTGAATACGGTTAGAGTCTAGCTACCAAAATCTGGGAGACCAATGCAGTT
 GGGCATGACACAAGGAAGCAATACAGGAACTGGCCAAATCGACACTGGTCTGGTCTAGTCTTTGGAG
 TGCAATTACATCGTGTTCGTATGCCTGCCTCACTCCTTCACTGGGCTCGGGTGGGAGATCCGCATGCATG
 TGAGCTCTTCTCAACTCCTTTCAGGGTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGAGGTT
 CAGGCAGAGGTGAAGAAGATGTGGAGTCCGTGGAACTCTCCGTGGACTGAAAAGGACACCGCCATGTG
 GCAGCCGAGATGCGGCTCAGTGCTCACCACCGTGACGCACAGCACCAGCAGCCAGTCACAGGTGGCGGC
 CAGCACACGCATGGTCTTATCTCTGGCAAAGCTGCCAAGATCGCCAGCAGACAGCCTGACAGCCACATC
 ACTTTACCTGGCTATGTCTGGAGTAACTCAGAGCAGGACTGCCTGCCACACTCTTCCACAGGAGACCA
 AGGAAGATAGTGGGAGGCAGGGAGATGATATTCTAATGGAGAAGCCTTCCAGGCCTATGGAATCTAACC
 AGACACTGAAGGATGCCAAGGAGAACTGAGGATGTTCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207775 representing NM_005048
 Red=Cloning site Green=Tags(s)

MAGLGASLHVWGLMLGSCLLARAQLDSDGTITIEEQIVLVKAKVQCELNITAQLQEGERNCFPPEWDGL
 ICWPRGTVGKISAVPCPPYIYDFNHKGVAFRHCNPNGTWDFMHSLNKTWANYSCLRFLQPDISIGKQEF
 FERLYVMYTVGYSISFGSLAVAILIIGYFRRLHCTRNYIHMHLFVSFMLRATSIKDRVVAHIGVKEL
 ESLIMQDDPQNSIEATSVDKSQYIGCKIAVVMFIYFLATNYYWILVEGLYLHNLIFVAFFSDTKYLWGF
 LIGWGFPAAFVAAWAVARATLADARWELSGDIKWIYQAPILAAIGLNFILFLNTRVRLATKIWETNAV
 GHDRKQYRKLAKSTLVLVVFGVHYIVFVCLPHSFTGLGWEIRMHCELFNSFQGFVSIYCYCNGEV
 QAEVKKMWSRWNLSDWKRTPPCGSRRCGSVLTTVTHSTSSQSQAASRMVLISGKAAKIASRQPDISHI
 TLPGYVWSNSEQDCLPHSFHEETKEDSGRQDDILMEKPSRPMESNPDEGCQGETEDVL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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: 2810 bp

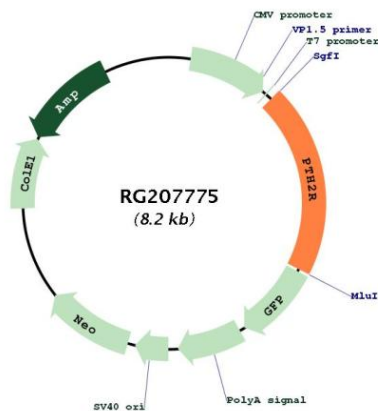
RefSeq ORF: 1653 bp

Locus ID: 5746

UniProt ID: [P49190](#)

Cytogenetics:	2q34
Domains:	7tm_2, HormR
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
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 RG207775