

Product datasheet for **SC127960**

Parathyroid Hormone Receptor 2 (PTH2R) (NM_005048) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parathyroid Hormone Receptor 2 (PTH2R) (NM_005048) Human Untagged Clone
Tag:	Tag Free
Symbol:	Parathyroid Hormone Receptor 2
Synonyms:	PTHR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127960 sequence for NM_005048 edited (data generated by NextGen Sequencing)

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ATGGCCGGGCTGGGGGCGTTCGCTCCACGTCTGGGGTTGGCTAATGCTCGGCAGCTGCCTC
CTGGCCAGAGCCCAGCTGGATTCTGATGGCACCATTACTATAGAGGAGCAGATTGCCTT
GTGCTGAAAGCGAAAGTACAATGTGAACCAACATCACAGCTCAACTCCAGGAGGGAGAA
GGTAATTTGTTCCCTGAATGGGATGGACTCATTGTTGGCCCAGAGGAACAGTGGGGAAA
ATATCGGCTGTTCCATGCCCTCTTATATTTATGACTTCAACATAAAGGAGTTGCTTTC
CGACACTGTAACCCCAATGGAACATGGGATTTTATGCACAGCTTAAATAAAACATGGGCC
AATTATTCAGACTGCCTTCGCTTCTGCAGCCAGATATCAGCATAGGAAAGCAAGAATTC
TTTGAACGCCTCTATGTAATGTATACCGTTGGCTACTCCATCTCTTTGGTTCTTGGCT
GTGGCTATTCTCATCATTGGTTACTTCAGACGATTGCATTGCACTAGGAACTATATCCAC
ATGCACTATTTGTGCTTTTCATGCTGAGAGCTACAAGCATCTTTGTCAAAGACAGAGTA
GTCCATGCTCACATAGGAGTAAAGGAGCTGGAGTCCCTAATAATGCAGGATGACCCACAA
AATTCCATTGAGGCAACTTCTGTGGACAAATCACAATATATCGGGTGCAAGATTGCTGTT
GTGATGTTTATTTACTTCTGGCTACAAATTATTATTGGATCCTGGTGGAAAGTCTCTAC
CTGCATAATCTCATCTTTGTGGCTTTCTTTTCGGACACCAAAATACCTGTGGGGCTTCATC
TTGATAGGCTGGGGGTTTCCAGCAGCATTGTTGCAGCATGGGCTGTGGCACGAGCAACT
CTGGCTGATGCGAGGTGCTGGGAACTTAGTGCTGGAGACATCAAGTGGATTTATCAAGCA
CCGATCTTAGCAGCTATTGGGCTGAATTTTATTCTGTTTCTGAATACGGTTAGAGTTCTA
GCTACCAAAATCTGGGAGACCAATGCAGTTGGGCATGACACAAGGAAGCAATACAGGAAA
CTGGCCAAATCGACACTGGTCTGGTCCTAGTCTTTGGAGTGCATTACATCGTGTTCGTA
TGCTGCCTCACTCCTTCACTGGGCTCGGGTGGGAGATCCGCATGCACTGTGAGCTCTTC
TTCAACTCCTTTACAGGTTTCTTTGTGTCTATCATCTACTGCTACTGCAATGGAGAGTT
CAGGCAGAGGTGAAGAAGATGTGGAGTCCGTGGAACCTCTCCGTGGACTGGAAAAGGACA
CCGCCATGTGGCAGCCGAGATGCGGCTCAGTGCTCACCACCGTGACGCACAGCACCAGC
AGCCAGTCACAGGTGGCGGCCAGCACACGCATGGTGCTTATCTCTGGCAAAGCTGCCAAG
ATCGCCAGCAGACAGCCTGACAGCCACATCACTTTACCTGGCTATGTCTGGAGTAACTCA
GAGCAGGACTGCCTGCCCACTCTTTCCACGAGGAGACCAAGGAAGATAGTGGGAGGCAG
GGAGATGATATTCTAATGGAGAAGCCTTCCAGGCCTATGGAATCTAACCCAGACTGAA
GGATGCCAAGGAGAAACTGAGGATGTTCTCTGA
    
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Clone variation with respect to NM_005048.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005048 unedited

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NGTTCAGGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATCANATCTGGTACC
GAGCTCGGCTCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTAGGGTCCCTGC
TTCTTCTACAGCCGTTCCGGGCATGGCCGGGCTGGGGGCGTTCGCTCCACGTCTGGGGTT
GGCTAATGCTCGGCAGCTGCCTCCTGGCCAGAGCCAGCTGGATTCTGATGGCACCATTA
CTATAGAGGAGCAGATTGTCCTTGTGCTGAAAGCGAAAGTACAATGTGAACTCAACATCA
CAGCTCAACTCCAGGAGGGAGAAGGTAATTGTTCCCTGAATGGGATGGACTCATTGTT
GGCCCAGAGGAACAGTGGGGAAAATATCGGCTGTTCCATGCCCTCTTATATTTATGACT
TCAACCATAAAGGAGTTGCTTTCCGACACTGTAACCCCAATGGAACATGGGATTTTATGC
ACAGCTTAAATAAAACATGGGCCAATTATTCAGACTGCCTTCGCTTTCTGCAGCCAGATA
TCAGCATAGGAAAGCAAGAATTTTGAACGCCTCTATGTAATGTATACCGTTGGCTACT
CCATCTCTTTGGTTCCCTGGCTGTGGCTATTCTCATCATTGGTTACTTCAGACGATTGC
ATTGCACTAGGAACTATATCCACATGCACTTATTTGTGCTTTTCATGCTGAGAGCTACAA
GCATCTTTGTCAAAGACAGAGTAGTCCATGCTCACATAGGAGTAAAGGAGCTGGAGTCCC
TAATAATGCAAGATGACCCACAAAATTTCAATTTGANGCACTTCTGTGGNACAATCACAAT
ATATCGGGTGCAAGATTGCTGTTGTGATGTTTATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005048 unedited NGCCCATGGAATGGCACTTCCAGGNCCAGNANAGCACTGGGGNAGGGTCACAGGGATGCC ACCCGGGATCTGTTTCAGGAAACAGCTATGACCCGCGCCGCAATCTAGATGCATGCTCGAG CGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGCCACAAATGTCCATTCAGAG AACATCCTCAGTTTCTCCTTGGCATCCTTCAGTGTCTGGGTTAGATTCCATAGGCCTGGA AGGCTTCTCATTAGAATATCATCTCCCTGCCTCCCCTATCTTCCTTGGTCTCCTCGTG GAAAGAGTGTGGCAGGCAGTCTGCTGAGTTACTCCAGACATAGCCAGGTAAAGTGAT GTGGCTGTCAGGCTGTCTGCTGGCGATCTTGGCAGCTTTGCCAGAGATAAGCACCATGCG TGTGCTGGCCGCCACCTGTGACTGGCTGCTGGTGTGTCGCTCACGGTGGTGAGCACTGA GCCGCATCTGCGGCTGCCACATGGCGGTGTCCTTTTCCAGTCCACGGAGAGGTTCCACCG ACTCCACATCTTCTTACCTCTGCCTGAACCTCTCCATTGCAGTAGCAGTAGATGATAGA CACAAAGAAACCCTGAAAGGAGTTGAAGAAGAGCTCACAGTGCATGCGGATCTCCCACCC GAGCCCAGTGAAGGAGTGAGGCAGGCATACGAACACGATGTAATGCACTCCANAGACTAG GACCAGGACCAGTGTGATTTGGCCAGTTTCTGTATTGCTTCTTGTGTCATGCCAAC TGCATTGGTCTCCAGATTTTGGTAGCTAGAACTCTAACCGTATTAGAAACAGAAATANA ATTCAGCCCAATAGCTGCTAAGATCGGTGCTTGATAAATCCACTTGATGTCTCCAGCACT AAGTTCC
Restriction Sites:	Please inquire
ACCN:	NM_005048
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005048.2 , NP_005039.1
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 (PTHrP) and is particularly abundant in brain and pancreas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).