

## Product datasheet for **SC119966**

### Parathyroid Hormone Receptor 1 (PTH1R) (NM\_000316) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Parathyroid Hormone Receptor 1 (PTH1R) (NM_000316) Human Untagged Clone
Tag:	Tag Free
Symbol:	Parathyroid Hormone Receptor 1
Synonyms:	EKNS; PFE; PTHR; PTHR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000316, RT-PCR generated  
 ATGGGGACCGCCCGGATCGCACCCGGCCTGGCGCTCCTGCTCTGCTGCCCGTGCTCAGC  
 TCCGCGTACGCGCTGGTGGATGCAGATGACGTCATGACTAAAGAGGAACAGATCTTCCTG  
 CTGCACCGTGCTCAGGCCAGTGCGAAAAACGGCTCAAGGAGGTCTGCAGAGGCCAGCC  
 AGCATAATGGAATCAGACAAGGGATGGACATCTGCGTCCACATCAGGGAAGCCCAGGAAA  
 GATAAGGCATCTGGGAAGCTCTACCCTGAGTCTGAGGAGGACAAGGAGGCACCCACTGGC  
 AGCAGGTACCGAGGGCGCCCTGTCTGCCGGAATGGGACCACATCCTGTGCTGGCCGCTG  
 GGGCACCCAGGTGAGGTGGTGGCTGTGCCCTGTCCGGACTACATTTATGACTTCAATCAC  
 AAAGGCCATGCCTACCGACGCTGTGACCGAATGGCAGCTGGGAGCTGGTGCCTGGGCAC  
 AACAGGACGTGGGCCAACTACAGCGAGTGTGTCAAATTTCTACCAATGAGACTCGTGAA  
 CGGGAGGTGTTTGACCGCTGGGCATGATTTACACCGTGGGCTACTCCGTGTCCCTGGCG  
 TCCCTCACCGTAGCTGTGCTCATCTGGCCTACTTTAGGCGGCTGCACTGCACGCGCAAC  
 TACATCCACATGCACCTGTTCTGTCTTCATGCTGCGCGCCGTGAGCATCTTCGTCAAG  
 GACGCTGTGCTCTACTCTGGCGCCACGCTTGATGAGGCTGAGCGCCTCACCGAGGAGGAG  
 CTGCGCGCCATCGCCCAGGCGCCCCGCGCCTGCCACCGCCGCTGCCGGCTACGCGGGC  
 TGCAAGGTGGCTGTGACCTTCTTCTTTACTTCTGCGCCACCAACTACTACTGGATTCTG  
 GTGGAGGGGCTGTACCTGCACAGCCTCATCTTCATGGCCTTCTTCTCAGAGAAGAAGTAC  
 CTGTGGGGCTTACAGTCTTCGGCTGGGGTCTGCCCGCTGTCTTCGTGGCTGTGTGGGT  
 AGTGTGACAGCTACCTGGCCAACACCGGGTGTGGGACTTGAGTCCGGGAACAAAAAG  
 TGGATCATCCAGGTGCCCATCCTGGCCTCCATTGTGCTCAACTTCATCTTTCATCAAT  
 ATCGTCCGGGTGCTCGCCACCAAGCTGCGGGAGACCAACGCCGGCCGGTGTGACACACGG  
 CAGCAGTACCGGAAGCTGCTCAAATCCACGCTGGTGTCTATGCCCTCTTTGGCGTCCAC  
 TACATTGTCTTTCATGGCCACACCATAACCCAGGCTCTCAGGGACGCTCTGGCAAGTCCAG  
 ATGCACTATGAGATGCTCTTCAACTCCTTCCAGGATTTTTTGTGCAATCATATATCTGT  
 TTCTGCAACGGCGAGGTACAAGCTGAGATCAAGAAATCTTGGAGCCGCTGGACACTGGCA  
 CTGGACTTCAAGCGAAAGGCACGACGCGGGAGCAGAGCTATAGCTACGGCCCCATGGTG  
 TCCCACACAAGTGTGACCAATGTCGGCCCCGTGTGGGACTCGGCCTGCCCTCAGCCCC  
 CGCCTACTGCCACTGCCACCACCAACGGCCACCCTCAGCTGCCTGGCCATGCCAAGCCA  
 GGGACCCAGCCCTGGAGACCCTCGAGACCACACCACCTGCCATGGCTGTCCCAAGGAC  
 GATGGGTCTCTCAACGGCTCCTGCTCAGGCCTGGACGAGGAGGCCTCTGGGCCTGAGCGG  
 CCACCTGCCCTGTACAGGAAGAGTGGGAGACAGTCATGTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000316 unedited  
 GGGGAATGTCGGGATTTGTAAACGATTACTATAGGCGGCCCGCCAGTCGTGATGGAATCTG  
 CAGAATCGGCTTGGTGGCGATGGGGACCGCCGGGTGCACCCGGCTGGCGTCTCTGCT  
 CTGCTGCCCGTGTCTCAGCTCCGCGTACGCGCTGGTGGATGCAGATGACGTCATGACTAA  
 AGAGGAACAGATCTTCTGCTGCACCGTGTCTCAGGCCAGTGCGAAAAACGGCTCAAGGA  
 GGTCTGCAGAGGCCAGCCAGCATAATGGAATCAGACAAGGGATGGACATCTGCGTCCAC  
 ATCAGGGAAGCCAGGAAAGATAAGGCATCTGGGAAGCTCTACCCTGAGTCTGAGGAGGA  
 CAAGGAGGCACCCACTGGCAGCAGGTACCGAGGGCGCCCTGTCTGCCGGAATGGGACCA  
 CATCTGTGCTGGCCGCTGGGGCACCAGGTGAGGTGGTGGTGTGCCCTGTCCGGACTA  
 CATTTATGACTTCAATCACAAGGCCATGCCTACCGACGCTGTGACCGCAATGGCAGCTG  
 GGAGCTGGTGCCTGGGCACAACAGGACGTGGGCCAACTACAGCGAGTGTGTCAAATTTCT  
 CACCAATGAGACTCGTGAACGGGAGGTGTTTGACCGCCTGGGCATGATTTACACCGTGGG  
 CTACTCCGTGTCCCTGGCGTCCCTCACCGTAGCTGTGCTCATCTTGGCCTACTTTAGGCG  
 GCTGCACTGCACCGCAACTACATCCACATGCACCTGTTCTGTCTTTCATGCTGCGCGC  
 CGTGAGCATCTTCGTCAAGGACGCTGTGCTCTACTCTGGCGCCACGCTGATGAGGCTGAG  
 CGCCTCACCGAGGAGAGCTGCGCCCATCGTCCAGGCGCCCCGACAGCTGCCACCA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000316 unedited CACTGGAGGCAGGGGCTCACAGAGGCACTGCCACTCCGGGTATCTGTTTCAGGAAAACAGC TATGACCGCGGCCGAATCTATAGTCGACAAGCTTGATATCGGTACCGAGCTCGGATCCA CTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCTTCGCTGGTCACATGACTGTCTCCCA CTCTTCTGTATCAGGGCAGGTGGCCGCTCAGGCCAGAGGCCTCCTCGTCCAGGCCTGA GCAGGAGCCGTTGAGGAACCCATCGTCCTTGGGAGCAGCCATGGCAGGTGGTGTGGTCTC GAGGGTCTCCAGGGCTGGGGTCCCTGGCTTGGCATGGCCAGGCAGCTGAAGGTGGCCGTT GGTGGTGGCAGTGGGCAGTAGGCCGGGGCTGAGGGGCAGGCCAGTCCCACAGGGGGCC GACATTGGTCACACTTGTGTGGGACACCATGGGGCCGTAGCTATAGCTGCTGCTCCCGCT GCGTGCCTTTGCTTGAAGTCCAGTGCCAGTGTCCAGCGGCTCCAAGATTTCTTGATCTC AGCTTGTACCTCGCCGTTGCAGAAACAGTATATGATTGCGACAAAAATCCCTGGAAAGA GTTGAAGAGCATCTCATAGTGCATCTGGACTTGCCAGAGCGTCCCTGAGACCTCGGTGTA TGGTGTGGCCATGAAGACAATGTAGTGGACGCCAAAGAGGGGCATGAGCACCAGCGTGA TTTGAGCAGCTTCCGGTACTGCTGCCGTGTGTACACCGGCCGGCGTTGGTCTCCCGCAG CTTGGTGGCGAGCACCCGNACGATTTTGTGAAGAAGATGAAGTTGAGCACAATGGAAGC CAGGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000316
<b>Insert Size:</b>	2090 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_000316.2, NP_000307.1</u>
<b>RefSeq Size:</b>	2144 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	5745
<b>UniProt ID:</b>	<u>Q03431</u>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction

**Gene Summary:**

The protein encoded by this gene is a member of the G-protein coupled receptor family 2. This protein is a receptor for parathyroid hormone (PTH) and for parathyroid hormone-like hormone (PTH LH). The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system. Defects in this receptor are known to be the cause of Jansen's metaphyseal chondrodysplasia (JMC), chondrodysplasia Blomstrand type (BOCD), as well as enchondromatosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, May 2010]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.