

Product datasheet for **SC328960**

Parathyroid Hormone Receptor 1 (PTH1R) (NM_001184744) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parathyroid Hormone Receptor 1 (PTH1R) (NM_001184744) Human Untagged Clone
Tag:	Tag Free
Symbol:	Parathyroid Hormone Receptor 1
Synonyms:	EKNS; PFE; PTHR; PTHR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001184744, the custom clone sequence may differ by one or more nucleotides

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ATGGGGACCGCCCGGATCGCACCCGGCCTGGCGCTCCTGCTCTGCTGCCCCGTGCTCAGC
TCCGCGTACGCGCTGGTGGATGACAGTACGTCATGACTAAAGAGGAACAGATCTTCCTG
CTGCACCGTGTCTCAGGCCAGTGCAGAAAACGGCTCAAGGAGTCTGCAGAGGCCAGCC
AGCATAATGGAATCAGACAAGGGATGGACATCTGCGTCCACATCAGGGAAGCCCAGGAAA
GATAAGGCATCTGGGAAGCTCTACCTGAGTCTGAGGAGGACAAGGAGGCACCCACTGGC
AGCAGGTACCGAGGGCGCCCTGTCTGCCGGAATGGGACCACATCCTGTGCTGGCCGCTG
GGGGCACCAGGTGAGGTGGTGGCTGTGCCCTGTCCGACTACATTATGACTTCAATCAC
AAAGGCCATGCCTACCGACGCTGTGACCGCAATGGCAGCTGGGAGCTGGTGCCTGGGCAC
AACAGGACGTGGGCCAACTACAGCGAGTGTGTCAAATTTCTACCAATGAGACTCGTGAA
CGGGAGGTGTTTGACCGCTGGGCATGATTACACCGTGGGCTACTCCGTGTCCCTGGCG
TCCCTACCGTAGCTGTGCTCATCCTGGCCTACTTTAGGCGGCTGCACTGCACGCGCAAC
TACATCCACATGCACCTGTTCTGTCTTCATGCTGCGCGCCGTGAGCATCTTCGTCAAG
GACGCTGTGCTCTACTCTGGCGCCACGCTTGATGAGGCTGAGCGCCTACCGAGGAGGAG
CTGCGCGCCATCGCCAGGCGCCCCCGCCGCTGCCACCGCCGCTGCCGCTACGCGGGC
TGCAGGGTGGCTGTGACCTTCTTCTTTACTTCTGGCCACCAACTACTACTGGATTCTG
GTGGAGGGGCTGTACCTGCACAGCCTCATCTTCATGGCCTTCTTCTCAGAGAAGAAGTAC
CTGTGGGGCTTCACAGTCTTCGGCTGGGGTCTGCCCGCTGTCTTCGTGGCTGTGTGGTC
AGTGTCAGAGTACCTGGCCAAACACGGGTGCTGGGACTTGAGTCCGGGAACAAAAAG
TGGATCATCCAGGTGCCATCCTGGCCTCCATTGTGCTCAACTTCATCCTCTTCATCAAT
ATCGTCCGGGTGCTCGCCACCAAGCTGCGGGAGACCAACGCCGGCGGTGTGACACACGG
CAGCAGTACCGGAAGCTGCTCAAATCCACGCTGGTGCTCATGCCCTCTTTGGCGTCCAC
TACATTGTCTTCATGGCCACACCATAACCGAGGTCTCAGGGACGCTCTGGCAAGTCCAG
ATGCACTATGAGATGCTCTTCAACTCCTTCCAGGATTTTTTGTGCGAATCATATACTGT
TTCTGCAATGGCGAGGTACAAGCTGAGATCAAGAAATCTTGGAGCGCTGGACTGGCA
CTGGACTTCAAGCGAAAGGCACGACGCGGGAGCAGCAGCTATAGCTACGGCCCCATGGT
TCCACACAAGTGTGACCAATGTCGGCCCCGTGTGGGACTCGGCCTGCCCTCAGCCCC
CGCCTACTGCCACTGCCACCACCAACGCCACCCTCAGCTGCCTGGCCATGCCAAGCCA
GGGACCCAGCCCTGGAGACCCTCGAGACCACACCCTGCCATGGCTGCTCCCAAGGAC
GATGGGTCTCTCAACGGCTCCTGCTCAGGCCTGGACGAGGAGGCCTCTGGGCCTGAGCG
CCACCTGCCCTGTACAGGAAGAGTGGGAGACAGTCATGTGA

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Restriction Sites: Please inquire

ACCN: NM_001184744

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001184744.1</u> , <u>NP_001171673.1</u>
RefSeq Size:	2007 bp
RefSeq ORF:	1782 bp
Locus ID:	5745
UniProt ID:	<u>Q03431</u>
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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 (PTHrP). 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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.</p>