

Product datasheet for **SC109659**

Parathyroid hormone related protein (PTH LH) (NM_002820) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Parathyroid hormone related protein (PTH LH) (NM_002820) Human Untagged Clone
Tag:	Tag Free
Symbol:	Parathyroid hormone related protein
Synonyms:	BDE2; HHM; PLP; PTHR; PTHRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002820, the custom clone sequence may differ by one or more nucleotides

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ATGCAGCGGAGACTGGTTCAGCAGTGGAGCGTCGCGGTGTTCTGCTGAGCTACGCGGTGCCCTCCTGCG  
GGCGCTCGGTGGAGGGTCTCAGCCCGCGCCTCAAAGAGCTGTGTCTGAACATCAGCTCCTCCATGACAA  
GGGGAAGTCCATCCAAGATTTACGGCGACGATTCTTCTTACCATCTGATCGCAGAAATCCACACAGCT  
GAAATCAGAGCTACCTCGGAGGTGTCCCCTAACTCCAAGCCCTCTCCCAACACAAAGAACCACCCCGTCC  
GATTTGGGTCTGATGATGAGGGCAGATACCTAACTCAGGAACTAACAAGGTGGAGACGTACAAAGAGCA  
GCCGCTCAAGACACCTGGGAAGAAAAAGAAAGGCAAGCCCGGAAACGCAAGGAGCAGGAAAAGAAAAA  
CGGCGAAGTCTGCTGCCTGGTTAGACTCTGGAGTGACTGGGAGTGGGCTAGAAGGGGACCACCTGTCTG  
ACACCTCCACAACGTCGCTGGAGCTCGATTCACGGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002820 unedited TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATT CGGCACGAGGCCCGCCCGTGAAGCGGGGCTGCCGCCTCCCTGCCGCTCCGGCTGCCACTA ACGACCCGCCCTCGCCGCCACCTGGCCCTCCTGATCGACGACACACGCACTTGAAACTTG TTCTCAGGGTGTGTGGAATCAACTTCCGGAAGCAACCAGCCACCAGAGGAGGTCCCGA GCGCGAGCGGAGACGATGCAGCGGAGACTGGTTCAGCAGTGGAGCGTCGCGGTGTTCTTG CTGAGCTACGCGGTGCCCTCCTGCGGGCGCTCGGTGGAGGCTCTCAGCCGCCGCTCAAA AGAGCTGTGTCTGAACATCAGTCTCCATGACAAGGGGAAGTCCATCCAAGATTTACGG CGACGATTCTTCCCTTACCATCTGATCGCAGAAATCCACACAGCTGAAATCAGAGCTACC TCGGAGGTGTCCCTAACTCCAAGCCCTCTCCCAACACAAAGAACCACCCCGTCCGATTT GGGTCTGATGATGAGGGCAGATACCTAACTCAGGAACTAACAAGGTGGAGACGTACAA AGAGCAGCCGCTCAAGACACCTGNGAAGAAAAAGAAAGGCAAGCCCGGAAACGCAAGGA GCAGGAAAAGAAAAACGGCGAACTCGCTCTGCCTGGTTAGACTCTGGAGTACTGGGAG TGGGCTAGAAGGNGACCCTGTCTGACACCTCCACAACGTCGCTGGAGCTCGATTACG GAGGCATNTGAATTTTCAGCAGAGACCTTNCCAGGACATNNATGCAGATTCTGGTATAGT GAACATATGGGAAAGTATAGAATTATTTATTGTCTGGTAATACTGGTAATGCATGA
Restriction Sites:	NotI-NotI
ACCN:	NM_002820
Insert Size:	1300 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).
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_002820.2, NP_002811.1</u>
RefSeq Size:	1881 bp
RefSeq ORF:	528 bp
Locus ID:	5744
UniProt ID:	<u>P12272</u>
Cytogenetics:	12p11.22

Domains:	Parathyroid
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>The protein encoded by this gene is a member of the parathyroid hormone family. This hormone, via its receptor, PTHR1, regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth. It is responsible for most cases of humoral hypercalcemia of malignancy, and mutations in this gene are associated with brachydactyly type E2 (BDE2). Alternatively spliced transcript variants have been found for this gene. There is also evidence for alternative translation initiation from non-AUG (CUG and GUG) start sites, downstream of the initiator AUG codon, resulting in nuclear forms of this hormone. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (2) differs in the 3' CDS and UTR, compared to variant 1. The resulting isoform (2) has a shorter C-terminus, as compared to isoform 1.</p>