

Product datasheet for RC219848

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Parathyroid Hormone (PTH) (NM_000315) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Parathyroid Hormone (PTH) (NM_000315) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Parathyroid Hormone

Synonyms: FIH1; PTH1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC219848 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATACCTGCAAAAGACATGGCTAAAGTTATGATTGTCATGTTGGCAATTTGTTTTCTTACAAAATCGG ATGGGAAATCTGTTAAGAAGAGAGATCTGTGAGTGAAATACAGCTTATGCATAACCTGGGAAAACATCTGAA CTCGATGGAGAGAGTAGAATGGCTGCGTAAGAAGCTGCAGGATGTGCACAATTTTGTTGCCCTTGGAGCT CCTCTAGCTCCCAGAGATGCTGGTTCCCAGAGGCCCCGAAAAAAAGGAAGACAATGTCTTGGTTGAGAGCC ATGAAAAAAGTCTTGGAGAGCAAACAAAGCTGATGTGAAATGTATTAACTAAAGCTAAATCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219848 protein sequence

Red=Cloning site Green=Tags(s)

MIPAKDMAKVMIVMLAICFLTKSDGKSVKKRSVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNFVALGA

PLAPRDAGSQRPRKKEDNVLVESHEKSLGEADKADVNVLTKAKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6451 f06.zip

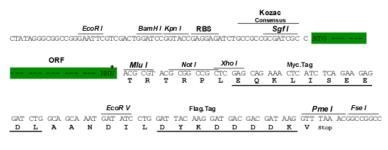
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_000315

ORF Size: 345 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeg: NM 000315.4

RefSeq Size: 828 bp RefSeq ORF: 348 bp



Locus ID: 5741

 UniProt ID:
 P01270

 Cytogenetics:
 11p15.3

Protein Families: Druggable Genome, Secreted Protein

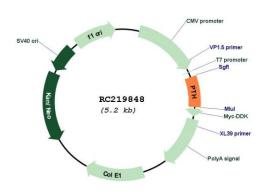
MW: 12.9 kDa

Gene Summary: This gene encodes a member of the parathyroid family of proteins. The encoded

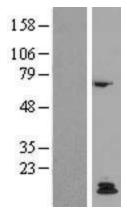
preproprotein is proteolytically processed to generate a protein that binds to the parathyroid hormone/parathyroid hormone-related peptide receptor and regulates blood calcium and phosphate levels. Excess production of the encoded protein, known as hyperparathyroidism, can result in hypercalcemia and kidney stones. On the other hand, defective processing of the encoded protein may lead to hypoparathyroidism, which can result in hypocalcemia and numbness. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct

2015]

Product images:



Circular map for RC219848



Western blot validation of overexpression lysate (Cat# [LY424804]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).