

Product datasheet for **RG219848**

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: TurboGFP
Symbol: PTH
Synonyms: FIH1; PTH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219848 representing NM_000315
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATACCTGCAAAGACATGGCTAAAGTTATGATTGTCATGTTGGCAATTTGTTTTCTTACAAAATCGG
ATGGGAAATCTGTTAAGAAGAGATCTGTGAGTGAAATACAGCTTATGCATAACCTGGGAAAACATCTGAA
CTCGATGGAGAGAGTAGAATGGCTGCGTAAGAAGCTGCAGGATGTGCACAATTTGTTGCCCTTGGAGCT
CCTCTAGCTCCCAGAGATGCTGGTCCCAGAGGCCCGAAAAAAGGAAGACAATGTCTTGTTGAGAGCC
ATGAAAAAAGTCTTGAGAGGCAGACAAAGCTGATGTGAATGTATTAATAAGCTAAATCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219848 representing NM_000315
Red=Cloning site Green=Tags(s)
MIPAKDMAKVMIVMLAICFLTKSDGKSVKKRSVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNFVALGA
PLAPRDAGSQRPRKKEDNVLVESHEKSLGEADKADVNVLTAKKSQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

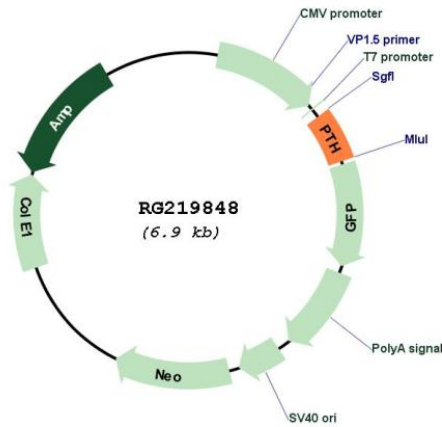


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Cloning Scheme:



Plasmid Map:



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:	<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_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
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]