

## Product datasheet for **RG212858**

### Parathyroid hormone related protein (PTH LH) (NM\_002820) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Parathyroid hormone related protein (PTH LH) (NM\_002820) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Parathyroid hormone related protein  
**Synonyms:** BDE2; HHM; PLP; PTHR; PTHRP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212858 representing NM\_002820  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGCGGAGACTGGTTCAGCAGTGGAGCGTCGCGGTGTTCTGCTGAGCTACGCGGTGCCCTCCTGCG  
 GGCGCTCGGTGGAGGGTCTCAGCCGCCGCTCAAAGAGCTGTGTCTGAACATCAGCTCCTCCATGACAA  
 GGGGAAGTCCATCAAGATTTACGGCGACGATTCTTCTTACCATCTGATCGCAGAAATCCACACAGCT  
 GAAATCAGAGCTACCTCGGAGGTGTCCCCTAACTCCAAGCCCTCTCCCAACACAAAGAACCACCCCGTCC  
 GATTTGGGTCTGATGATGAGGGCAGATACCTAACTCAGGAACTAACAAGGTGGAGACGTACAAAGAGCA  
 GCCGCTCAAGACACCTGGGAAGAAAAGAAAGGCAAGCCCGGAAACGCAAGGAGCAGGAAAAGAAAAA  
 CGGCGAATCGCTCTGCCTGGTTAGACTCTGGAGTGACTGGGAGTGGGCTAGAAGGGGACCACCTGTCTG  
 ACACCTCCACAACGTCGCTGGAGCTCGATTCACGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG212858 representing NM\_002820  
 Red=Cloning site Green=Tags(s)

MQRRLVQQWSVAVFLLSYAVPSCGRSVEGLSRRLKRAVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIH  
 TA EIRATSEVSPNSKPSPTKNHPVRFGSDDEGRYLTQETNKVETYKEQPLKTPGKKKKGKPGKRKEQEK  
 KRRTSAWLDSGVTGSGLEGDHLSDTSTTSLELDSR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NM\_002820

**ORF Size:** 525 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.

**RefSeq:** [NM\\_002820.2](#), [NP\\_002811.1](#)

**RefSeq Size:** 1881 bp

**RefSeq ORF:** 528 bp

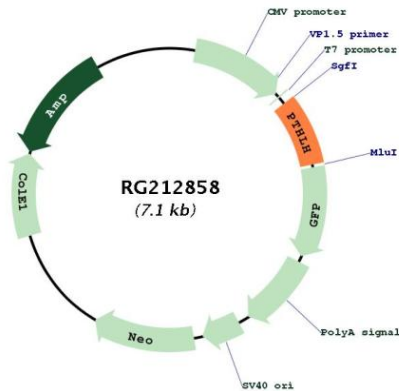
**Locus ID:** 5744

**UniProt ID:** [P12272](#)

**Cytogenetics:** 12p11.22  
**Domains:** Parathyroid  
**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** 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]

**Product images:**



Circular map for RG212858