

Product datasheet for **RC229537**

GHRH (NM_001184731) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GHRH (NM_001184731) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GHRH
Synonyms: GHRF; GRF; INN
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229537 representing NM_001184731
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCACTCTGGGTGTTCTTCTTTGTGATCCTCACCTCAGCAACAGCTCCCACTGCTCCCCACCTCCCC
CTTTGACCCTCAGGATGCGGCGGTATGCAGATGCCATCTTACCAACAGCTACCGGAAGGTGCTGGGCCA
GCTGTCCGCCCGAAGCTGCTCCAGGACATCATGAGCAGGCAGCAGGGAGAGAGCAACCAAGAGCGAGGA
GCAAGGGCACGGCTTGGTCGTCAGGTAGACAGCATGTGGGCAGAACAAAAGCAAATGGAATTGGAGAGCA
TCCTGGTGGCCCTGCTGCAGAAGCACAGGAACCTCCAGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229537 representing NM_001184731
Red=Cloning site Green=Tags(s)

MPLWVFFVILTLNSSHCSPPPPLTLRMRRYADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERG
ARARLGRQVDSMWAEQKQMELESILVALLQKHRNSQG

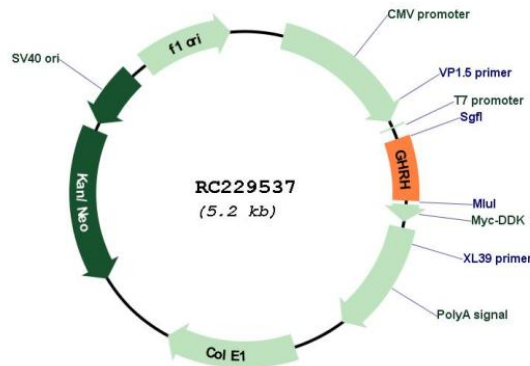
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001184731

ORF Size: 321 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_001184731.2
RefSeq ORF:	324 bp
Locus ID:	2691
UniProt ID:	P01286
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome, Secreted Protein
MW:	12.8 kDa
Gene Summary:	<p>This gene encodes a member of the glucagon family of proteins. The encoded preproprotein is produced in the hypothalamus and cleaved to generate the mature factor, known as somatoliberin, which acts to stimulate growth hormone release from the pituitary gland. Variant receptors for somatoliberin have been found in several types of tumors, and antagonists of these receptors can inhibit the growth of the tumors. Defects in this gene are a cause of dwarfism, while hypersecretion of the encoded protein is a cause of gigantism. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]</p>