

Product datasheet for **RG214757**

GHRHR (NM_001009824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GHRHR
Synonyms:	GHRFR; GHRHRpsv; GRFR; IGHD1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214757 representing NM_001009824
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCGCCGGATGTGGGGGGCCACGTCTTCTGCGTGTTGAGCCGTTACCGACCGTATTGGGCCACA
TGCACCCAGAATGTGACTTCATCACCAGCTGAGAGAGGATGAGAGTGCCTGTCTACAAGCAGCAGAGGA
GATGCCCAACACCACCTGGGCTGCCCTGCGACCTGGGATGGGCTGCTGTGCTGGCCAACGGCAGGCTCT
GGCAGTGGGTACCCCTCCCTGCCCGATTCTTCTCTCACTTCAGCTCAGAGTCAGGGCTGTGAAAC
GGGATTGTACTATCACTGGCTGGTCTGAGCCCTTCCACCTTACCCTGTGGCCTGCCCTGTGCCTTGGA
GCTGCTGGCTGAGGAGGAATCTTACTTCTCCACAGTGAAGATTATCTACACCGTGGGCCATAGCATCTCT
ATTGTAGCCCTCTTCGTGGCCATCACCATCCTGGTTGCTCTCAGGAGGCTCCACTGCCCCGGAACACG
TCCACACCCAGCTGTTCACTCTTTATCCTCAAGGCGGGAGCTGTGTTCTGAAGGATGCTGCCCTTTT
CCACAGCGACGACACTGACCACTGACGCTTCTCCACTGTTCTATGCAAGGTCTCTGTGGCCGCTCCCAT
TTCGCCACCATGACCACTTCAGCTGGCTGTTGGCAGAAGCCGTCTACCTGAACTGCCTCCTGGCCTCCA
CCTCCCCAGCTCAAGGAGAGCCTTCTGGTGGCTGGTTCTCGCTGGCTGGGGCTGCCCGTGTCTTTCAC
TGGCAGTGGGTGAGCTGCAAACTGGCCTTCGAGGACATCGGTGCTGGGACCTGGACGACACCTCCCC
TACTGGTGGATCATCAAAGGGCCATTGTCTCTCGGTGCGGGTGAACCTTGGGCTTTTCTCAATATTA
TCCGCATCCTGGTGAAGAACTGGAGCCAGCTCAGGGCAGCTCCATACCACTCAGTATTGGTACTG
TGTGTTGTGTCTGGGATACTGGGAAAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



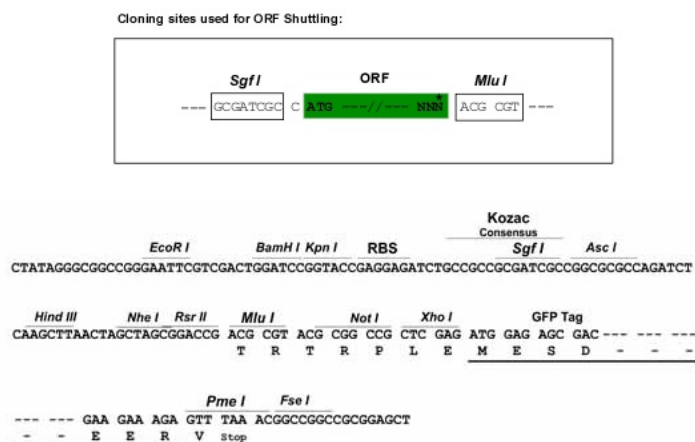
Protein Sequence: >RG214757 representing NM_001009824
Red=Cloning site Green=Tags(s)

MDRRMWGAHVFCVLSPLPVLVGHMHPCEDFITQLREDESACLQAAEEMPNTTLGCPATWDGLLCWPTAGS
GEWVTLPCPDFFSHFSSGSAVKRDCITIGWSEFPFPYPVACPVPLELLAEESYFSTVKIITYTVGHSIS
IVALFVAITILVALRRLHCPNRVNYHTQLFTFFILKAGAVFLKDAALFTHSDDTCHSFSTVLCKVSVAAASH
FATMTNFSWLLAEAVYHLCNLLATSPSSRRFAFWLVLAGWGLPVLFTGSDWSCKLAFEDIACWDLDDTSP
YWWIIKGPILVSGVNGFLFLNIIRILVRKLEPAOGLSLTOSQYWCYFVSGDGTGK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001009824

ORF Size: 1011 bp

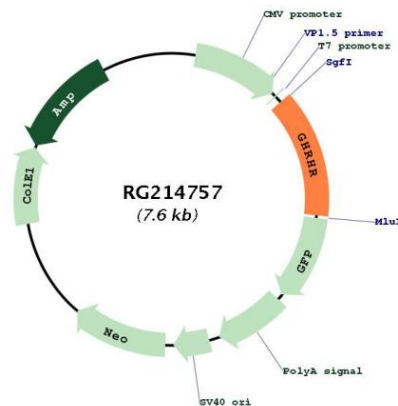
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	<u>NM_001009824.1</u> , <u>NP_001009824.1</u>
RefSeq Size:	1130 bp
RefSeq ORF:	1013 bp
Locus ID:	2692
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a receptor for growth hormone-releasing hormone. Binding of this hormone to the receptor leads to synthesis and release of growth hormone. Mutations in this gene have been associated with isolated growth hormone deficiency (IGHD), also known as Dwarfism of Sindh, a disorder characterized by short stature. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG214757