

Product datasheet for **RG214403**

GNRHR (NM_000406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNRHR (NM_000406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNRHR
Synonyms:	GNRHR1; GRHR; HH7; LHRHR; LRHR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214403 representing NM_000406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAACAGTGCCTCTCCTGAACAGAATCAAAATCACTGTTTCAGCCATCAACAACAGCATCCCCTGA
TGCAGGGCAACCTCCCCTCTGACCTTGCTGGAAAGATCCGAGTGACGGTTACTTTCTCCTTTTTCT
GCTCTCTGCGACCTTTAATGCTTCTTTCTTGTGAAACTCAGAAGTGGACACAGAAGAAAGAGAAAGGG
AAAAAGCTCTCAAGAATGAAGCTGCTCTTAAAACATCTGACCTTAGCCAACCTGTTGGAGACTCTGATTG
TCATGCCACTGGATGGGATGTGGAACATTACAGTCCAATGGTATGCTGGAGAGTTACTCTGCAAAGTTCT
CAGTTATCTAAAGCTTTTCTCCATGTATGCCCCAGCCTTCATGATGGTGGTATCAGCCTGGACCGCTCC
CTGGCTATCACGAGGCCCTAGCTTTGAAAAGCAACAGCAAAGTCGGACAGTCCATGGTTGGCCTGGCCT
GGATCCTCAGTAGTGTCTTTGCAGGACCACAGTTATACATCTTCAGGATGATTCATCTAGCAGACAGCTC
TGGACAGACAAAAGTTTTCTCTCAATGTGTAACACACTGCAGTTTTTCAATGGTGGCATCAAGCATT
TATAACTTTTTCACCTTCAGCTGCCTCTTCATCATCCCTTTTTTCATCATGCTGATCTGCAATGCAAAAA
TCATCTTCACCCTGACACGGTCTTTCATCAGGACCCCAAGTCAACTGAATCAGTCCAAGAACA
TATACCAAGAGCACGGCTGAAGACTCTAAAATGACGGTTGCATTTGCCACTTCATTTACTGTCTGCTGG
ACTCCCTACTATGCTCCTAGGAATTTGGTATTGGTTTGATCCTGAAATGTTAAACAGGTTGTCAGACCCAG
TAAATCACTTCTTCTTTCTTTGCCTTTTTAAACCCATGCTTTGATCCACTTATCTATGGATATTTTTTC
TCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214403 representing NM_000406
 Red=Cloning site Green=Tags(s)

MANSASPEQNQHCSAINNSIPLMQGNLPTLTL SGKIRVTVTFFLFLLSATFNASFL LKQKWTQKKEKG
 KKL SRMKLL LKHLTLANLLET L I V MPLDGMWNITVQWYAGELLCKVL SYLKLFSMYAPAFMMVVISLDRS
 LAITRPLALKSNSKVGQSMVGLAWILSSVFAGPQLYIFRMIHLADSSGQTKVFSQCVTHCSFSQWWHQAF
 YNFFTFSCLFIIPLFIMLICNAKII FT L TRVLHQDPHELQLNQSKNNIPRARLKLTKMTVAFATSFTVCW
 TPYYVLGIWYWFDPPEMLNRLSDPVNHFFFLFAFLNPCFDPLIYGYFSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000406

ORF Size: 984 bp

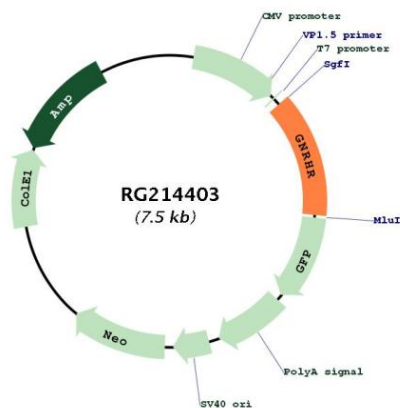
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_000406.3
RefSeq Size:	5843 bp
RefSeq ORF:	987 bp
Locus ID:	2798
UniProt ID:	P30968
Cytogenetics:	4q13.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	GnRH signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seven-transmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms. More than 18 transcription initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified for this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG214403