

Product datasheet for **RG216028**

Luteinizing Hormone beta (LHB) (NM_000894) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Luteinizing Hormone beta (LHB) (NM_000894) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LHB
Synonyms: CGB4; HH23; LSH-B; LSH-beta
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216028 representing NM_000894
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGATGCTCCAGGGGCTGCTGCTGTTGCTGCTGCTGAGCATGGGCGGGGCATGGGCATCCAGGGAGC
 CGCTTCGGCCATGGTGCCACCCCATCAATGCCATCCTGGCTGTCGAGAAGGAGGGCTGCCAGTGTGCAT
 CACCGTCAACACCACCATCTGTGCCGGCTACTGCCACCATGATGCGCGTGTGCAGGCGGTCTGCCG
 CCCCTGCCTCAGGTGGTGTGCACCTACCGTGATGTGCGCTTCGAGTCCATCCGGCTCCCTGGCTGCCCG
 GTGGTGTGGACCCGTGGTCTCCTCCCTGTGGCTCTCAGCTGTCGCTGTGGACCCTGCCGCCGAGCAC
 CTCTGACTGTGGGGTCCCAAAGACCACCCCTTGACCTGTGACCACCCCAACTCTCAGGCTCCTCTTC
 CTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216028 representing NM_000894
 Red=Cloning site Green=Tags(s)
 MEMLQGLLLLLLSMGGAWASREPLRPWCHPINAILAVEKEGCPVCITYNTTICAGYCPTMMRVLQAVLP
 PLPQVVCTYRDVRFESIRLPGCPRGVDPVVFPVALSCRCGPCRRSTSDCGGPKDHPLTCDHPQLSGLLF
 L

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

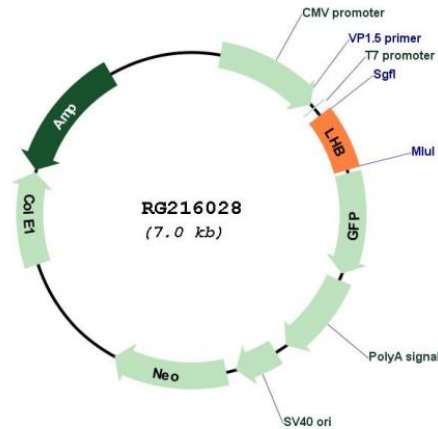


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Cloning Scheme:



Plasmid Map:



ACCN: NM_000894

ORF Size: 423 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_000894.3
RefSeq Size:	523 bp
RefSeq ORF:	426 bp
Locus ID:	3972
UniProt ID:	P01229
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	GnRH signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>This gene is a member of the glycoprotein hormone beta chain family and encodes the beta subunit of luteinizing hormone (LH). Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. LH is expressed in the pituitary gland and promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids. The genes for the beta chains of chorionic gonadotropin and for luteinizing hormone are contiguous on chromosome 19q13.3. Mutations in this gene are associated with hypogonadism which is characterized by infertility and pseudohermaphroditism. [provided by RefSeq, Jul 2008]</p>