

Product datasheet for **SC300137**

GnRH (GNRH1) (NM_000825) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GnRH (GNRH1) (NM_000825) Human Untagged Clone
Tag:	Tag Free
Symbol:	GnRH
Synonyms:	GNRH; GRH; LHRH; LNRH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000825 edited CCCACAGATGGTTCAGCCAGCAGTAATGCTAGGAAGACTGAAGGATAAATAGAAAAATGT CATTAGTACCATGGGGTAGCCATGTAATGTCAAGCAATTTTATATTAGCCAGAGATTCCT AGTAGGAGCTACTTTTCTTAACAGATGACTCAGTTCTCTTTATCTCAGGAATGAAAGAGT TGAAGACCAATCCACAACAGGGGAAATGTTAAGGCAAAATGATGAACTTGATAAGGGATG AATTATGGGGTTTGGATAACCAACAATAAAAATAAAAGTATAGACTATTTTAGTACTAA AAAGGTCCTGAACATGTGAGCTTAAGTACTCATTTTGTCCCCAGTGGCTAAGAACTAAA GGCAAGCCAGCAAGTGTCTCTGAGTTTCAGTGTCTGTATGAAAACTGACTCTGACTTC CATCTTCTGCAGGGTTAGTGATACAGATGCTAGCTTTTCACTAAAGAGGCTTTTAGTT TATACTCAACCTTGTCTGGATCTAATTTGATTGTGCATTCATGTGCCTTAGAATGAAGCC AATTCAAAAACCTCTAGCTGGCCTTATTCTACTGACTTGGTGCCTGGAAGGCTGCTCCAG CCAGCACTGGTCTATGGACTGCGCCCTGGAGGAAAGAGAGATGCCGAAAATTTGATTGA TTCTTTTCCAAGAGATAGTCAAAGAGGTTGGTCAACTGGCAGAAACCCAACGCTTCGAATG CACCACGCACCAGCCACGTTCTCCCCTCCGAGACCTGAAAGGAGCTCTGGAAAGTCTGAT TGAAGAGGAAACTGGGCAGAAGAAGATTTAAATCCATTGGGCCAGAAGGAATGACCAT
Restriction Sites:	Please inquire
ACCN:	NM_000825
Insert Size:	800 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000825.2.

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_000825.2](#), [NP_000816.2](#)

RefSeq Size: 1512 bp

RefSeq ORF: 279 bp

Locus ID: 2796

Cytogenetics: 8p21.2

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: GnRH signaling pathway

Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate a peptide that is a member of the gonadotropin-releasing hormone (GnRH) family of peptides. Alternative splicing results in multiple transcript variants, at least one of which is secreted and then cleaved to generate gonadoliberin-1 and GnRH-associated peptide 1. Gonadoliberin-1 stimulates the release of luteinizing and follicle stimulating hormones, which are important for reproduction. Mutations in this gene are associated with hypogonadotropic hypogonadism. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). This isoform (1) may undergo proteolytic processing similar to isoform (2).