

Product datasheet for **SC119734**

hCG (CGA) (NM_000735) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hCG (CGA) (NM_000735) Human Untagged Clone
Tag:	Tag Free
Symbol:	hCG
Synonyms:	CG-ALPHA; FSHA; GPA1; GPHa; GPHA1; HCG; LHA; TSHA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119734 sequence for NM_000735 edited (data generated by NextGen Sequencing) ATGGATTACTACAGAAAATATGCAGCTATCTTTCTGGTCACATTGTCGGTGTTCAT GTTCTCCATTCCGCTCCTGATGTGCAGGATTGCCAGAATGCACGCTACAGGAAAACCCA TTCTTCTCCCAGCCGGGTGCCCAATACTTCAGTGCATGGGCTGCTGCTTCTCTAGAGCA TATCCCACTCCACTAAGGTCCAAGAAGACGATGTTGGTCCAAAAGAACGTCACCTCAGAG TCCACTTGCTGTGTAGCTAAATCATATAACAGGGTCACAGTAATGGGGGTTTCAAAGTG GAGAACCACACGGCGTGCCACTGCAGTACTTGTATTATCACAAATCTTAA Clone variation with respect to NM_000735.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000735 unedited GCTGGATTTAGGNAATCCGNATTTCACTATAGGGCGAGCCGCGCAATTCGGCACCAGNAC GAAGCTAAATCCCTCTTCGGATCCACAGTCAACCGCCCTGAACACTCCTGCAAAAAGCC CAGAGAAAGGAGCGCCATGGATTACTACAGAAAATATGCAGCTATCTTTCTGGTCACATT GTCGGTGTTCGTCATGTTCTCCATTCCGCTCCTGTATGTTCAAGGATTGCCAGAATGCA CGCTACAGGAAAACCCATTCTTCTCCAGCCGGTGCCCAATACTTCAGTGCATGGGCT GCTGCTTCTCTAGAGCATATCCCACTCCACTAAGGTCCAAGAAGACGATGTTGGTCCAAA AGAACGTCACCTCAGAGTCCACTTGCTGTGTAGCTAAATCATATAACAGGGTCACAGTAA TGGGGGGTTTCAAAGTGGAGAACCACACGGCGTGCCACTGCAGTACTTGTATTATCACAA AATCTTAAATGTTTTACCAAGTGTCTTGATGACTGCTGATTTTCTGGAATGGAAAAT TAAGTTGTTTAGTGTGTTATGGCTTTGTGAGATAAACTCTCCTTTTCTTACCATACCAC TTTGACACGCTTCAAGGATATACTGCAGCTTTACTGCCTTCTCCTTATCCTACAGTACA ATCAGCAGTCTAGTTCTTTTCATTTGGGATGAATACAGCATTTAGCTTGGTCCACTGCAA ATAAAGCCTTTTTAATCATCAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCNGCCGCG GTCATAGCTGTTCCCTGACAGATCCCGGTGGCATCCCTGTGACCTCCCAATGCCTT TCTGGGCCTGAAAGTGCCCTCCAGTGCCAACAACACTTGGGCCTATAAATAAAGTGCATC ATTTTGNCTGACAAGGTGTCCTCTTAAATTATGGGTTGAGAGGGTTGTGTTGAAAACCA GGGCAAATTTGGAAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_000735
Insert Size:	700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_000735.2</u> , <u>NP_000726.1</u>
RefSeq Size:	704 bp
RefSeq ORF:	351 bp
Locus ID:	1081
UniProt ID:	<u>P01215</u>
Cytogenetics:	6q14.3
Domains:	GHA

Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Autoimmune thyroid disease, GnRH signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. The protein encoded by this gene is the alpha subunit and belongs to the glycoprotein hormones alpha chain family. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>