

## Product datasheet for **RG203146**

### **hCG (CGA) (NM\_000735) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** hCG (CGA) (NM\_000735) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** hCG  
**Synonyms:** CG-ALPHA; FSHA; GPA1; GPHa; GPHA1; HCG; LHA; TSHA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203146 representing NM\_000735  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATTACTACAGAAAATATGCAGCTATCTTTCTGGTCACATTGTCGGTGTTCATGTTCTCCATT  
 CCGCTCCTGATGTGCAGGATTGCCAGAATGCACGCTACAGGAAAACCACTCTTCTCCAGCCGGGTGC  
 CCAATACTTCAGTGCATGGGCTGCTGCTTCTCTAGAGCATATCCACTCCACTAAGGTCCAAGAAGACG  
 ATGTTGGTCCAAAAGACGTACCTCAGAGTCCACTTGCTGTGTAGCTAAATCATATAACAGGGTACAG  
 TAATGGGGGTTCAAAGTGGAGAACCACCGGCTGCCACTGCAGTACTGTTATTATCACAAATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203146 representing NM\_000735  
 Red=Cloning site Green=Tags(s)  
 MDYYRKYAAIFLVLSVFLHVLHSAPDVQDCPECTLQENPLFSQPGAPILQCMGCCFSRAYPTPLRSKKT  
 MLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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## Cloning Scheme:



ACCN: NM\_000735

ORF Size: 348 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.

RefSeq: [NM\\_000735.2](#), [NP\\_000726.1](#)

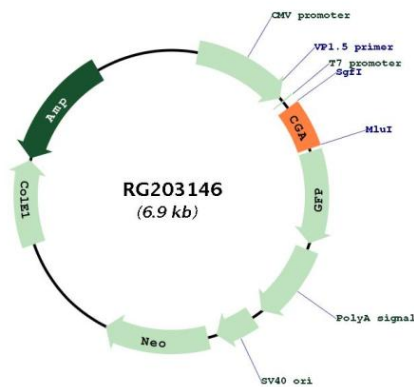
RefSeq Size: 704 bp

RefSeq ORF: 351 bp

**Locus ID:** 1081  
**UniProt ID:** [P01215](#)  
**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:** 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]

## Product images:



Circular map for RG203146