

Product datasheet for RC208311

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hCG beta (CGB7) (NM_033142) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: hCG beta (CGB7) (NM_033142) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: hCG beta

Synonyms: CG-beta-a; CGB6

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC208311 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGATGTTCCAGGGGCTGCTGCTGTTGCTGCTGCTGAGCATGGGCGGACATGGGCATCCAAGGAGC CGCTTCGGCCACGGTGCCGCCCCATCAATGCCACCCTGGCTGTGGAGAAGGAGGGCTGCCCCGTGTGCAT CACCGTCAACCACCATCTGTGCCGGCTACTGCCCCACCATGACCCGCGTGCTGCAGGGGGTCCTGCCG GCCCTGCCTCAGGTGGTGCAACTACCGCGATGTGCGCTTCGAGTCCATCCGGCTCCCTGGCTGCCGC GCGCGTGAACCCCCGTGGTCTCCTACGCCGTGGCTCTCAGCTGTCAATGTGCACTCTGCCGCCGCAGCAC CACTGACTGCCGGGGGTCCCAAGGACCACCCCTTGACCTGTGATGACCCCCGCTTCCAGGCCTCCTCTTCC TCAAAGGCCCCTCCCCCCAGCCTTCCAAGTCCATCCCGACTCCCGGGGCCCTCGGACACCCCGATCCTCC

CACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208311 protein sequence

Red=Cloning site Green=Tags(s)

MEMFQGLLLLLLSMGGTWASKEPLRPRCRPINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLP ALPQVVCNYRDVRFESIRLPGCPRGVNPVVSYAVALSCQCALCRRSTTDCGGPKDHPLTCDDPRFQASSS

SKAPPPSLPSPSRLPGPSDTPILPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6552 a12.zip





Restriction Sites:

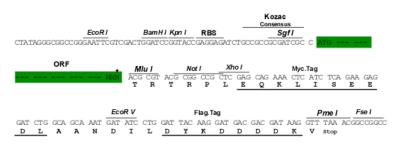
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf1 ORF Miu I

--- GCGATCGC C ATG ---//--- NNN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF

ACCN: NM_033142

ORF Size: 495 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: <u>NM 033142.1, NP 149133.1</u>

 RefSeq Size:
 880 bp

 RefSeq ORF:
 498 bp

 Locus ID:
 94027

 UniProt ID:
 P01233



Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Secreted Protein

MW: 17.7 kDa

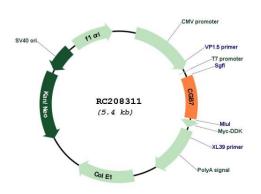
Gene Summary: This gene is a member of the glycoprotein hormone beta chain family and encodes the beta 7

> subunit of chorionic gonadotropin (CG). Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. CG is produced by the trophoblastic cells of the placenta and stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. The beta subunit

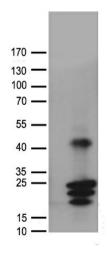
of CG is encoded by 6 genes which are arranged in tandem and inverted pairs on chromosome 19q13.3 and contiguous with the luteinizing hormone beta subunit gene.

[provided by RefSeq, Jul 2008]

Product images:



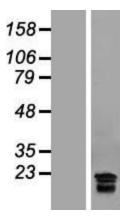
Circular map for RC208311



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CGB7 (Cat# RC208311, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CGB7 antibody (Cat# [TA890044]). Positive lysates [LY409707] (100ug) and [LC409707] (20ug) can be

purchased separately from OriGene.





Western blot validation of overexpression lysate (Cat# [LY409707]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208311 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).