

Product datasheet for **RG221679**

CGB2 (NM_033378) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CGB2 (NM_033378) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CGB2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221679 representing NM_033378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAAAGGGGCTGCTGCTGTTGCTGCTGCTGAGCATGGGCGGGACATGGGCATCCAAGGAGCCGCTTC
 GGCCACGGTGCCGCCCATCAATGCCACCCTGGCTGTGGAGAAGGAGGGCTGCCCCGTGTGCATCACCGT
 CAACACCACCATCTGTGCCGGCTACTGCCCCACCATGACCCGCGTGTGCAGGGGGTCTGCCGGCCCTG
 CCTCAGGTGGTGTGCAACTACCGCATGTGCGCTTCGAGTCCATCCGGCTCCCTGGCTGCCCGCGCGGCG
 TGAACCCCGTGGTCTCTACGCCGTGGCTCTCAGCTGTCAATGTGCACTCTGCCGCGCAGCACCCTGA
 CTGCGGGGGTCCCAAGGACCACCCCTTGACCTGTGATGACCCCGCTTCCAGGCCTCCTCTCTCTCAAAG
 GCCCTCCCCCAGCCTTCAAGCCCATCCCGACTCCCGGGGCCCTCAGACCCCGATCTCCACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221679 representing NM_033378
 Red=Cloning site Green=Tags(s)

MSKGLLLLLLLSMGGTWASKEPLRPRCPINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPAL
 PQVVCNYRDVRFESIRLPGCPRGVNPVVSVAVALSCQCALCRRSTTDCGGPKDHPLTCDPRFQASSSSK
 APPPSLPSPSRLPGPSDTPILPQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_033378

ORF Size: 489 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_033378.2](#)

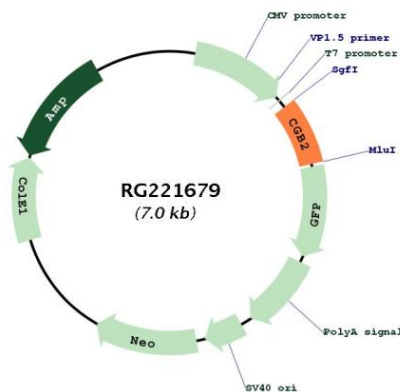
RefSeq Size: 732 bp

RefSeq ORF: 492 bp

Locus ID: 114336

UniProt ID:	<u>Q6NT52</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome
Gene Summary:	<p>The beta subunit of chorionic gonadotropin (CGB) is encoded by six highly homologous and structurally similar genes that are arranged in tandem and inverted pairs on chromosome 19q13.3, and contiguous with the luteinizing hormone beta (LHB) subunit gene. The CGB genes are primarily distinguished by differences in the 5' untranscribed region. This gene was originally thought to be one of the two pseudogenes (CGB1 and CGB2) of CGB subunit, however, detection of CGB1 and CGB2 transcripts in vivo, and their presence on the polysomes, suggested that these transcripts are translated. To date, a protein product corresponding to CGB2 has not been isolated. The deduced sequence of the hypothetical protein of 132 aa does not share any similarity with that of functional CGB subunits (PMID:8954017). However, a 163 aa protein, translated from a different frame, is about the same size, and shares 98% identity with other CGB subunits. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG221679