

Product datasheet for RG231934

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OriGene Technologies, Inc.

CGGBP1 (NM 001195308) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CGGBP1 (NM_001195308) Human Tagged ORF Clone

Tag: TurboGFP Symbol: CGGBP1

Synonyms: CGGBP; p20-CGGBP

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG231934 representing NM_001195308
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGCGATTTGTAGTAACAGCACCACCTGCTCGAAACCGTTCTAAGACTGCTTTGTATGTGACTCCCC TGGATCGAGTCACTGAGTTTGGAGGTGAGCTGCATGAAGATGGAGGAAAACTCTTCTGCACTTCTTGCAA TGTGGTTCTGAATCATGTTCGCAAGTCTGCCATTAGTGACCACCTCAAGTCAAGACTCATACCAAGAGG AAGGCAGAATTTGAAGAGCAGAATGTGAGAAAGAAGCAGAGGCCCCTAACTGCATCTCTTCAGTGCAACA GTACTGCGCAAACAGGAAAGTCAGTGTTATCCAGGACTTTGTGAAAAATGTGCCTGGAAGCCAACATCCC ACTTGAGAAGGCTGATCACCCAGCAGTCCGTGCTTTCCTATCTCGCCATGTGAAGAATGAGAGCCCATA CCTAAGTCAGACCAGCTACGGAGGCATATCTTCCTGATGGATATGAGAATGAGAATCAACTCCTCAACT

CACAAGATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231934 representing NM_001195308

Red=Cloning site Green=Tags(s)

MERFVVTAPPARNRSKTALYVTPLDRVTEFGGELHEDGGKLFCTSCNVVLNHVRKSAISDHLKSKTHTKR KAEFEEQNVRKKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPLEKADHPAVRAFLSRHVKNGGSI

PKSDQLRRAYLPDGYENENQLLNSQDC

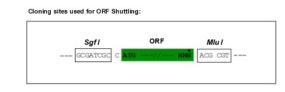
TRTRPLE - GFP Tag - V

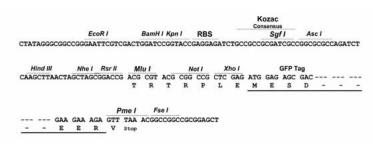
Restriction Sites: Sgfl-Mlul



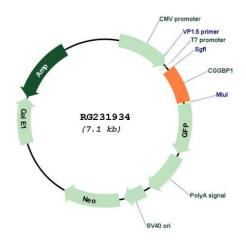


Cloning Scheme:





Plasmid Map:



ACCN: NM_001195308

ORF Size: 501 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.

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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 001195308.1</u>, <u>NP 001182237.1</u>

 RefSeq Size:
 4589 bp

 RefSeq ORF:
 504 bp

 Locus ID:
 8545

 UniProt ID:
 Q9UFW8

Cytogenetics: 3p11.1

Gene Summary: This gene encodes a CGG repeat-binding protein that primarily localizes to the nucleus. CGG

trinucleotide repeats are implicated in many disorders as they often act as transcription- and translation-regulatory elements, can produce hairpin structures which cause DNA replication errors, and form regions prone to chromosomal breakage. CGG repeats are also targets for CpG methylation. In addition to its ability to bind CGG repeats and regulate transcription, this gene is believed to play a role in DNA damage repair and telomere protection. In vitro studies indicate this protein does not bind to methylated CpG sequences. [provided by RefSeq, Jul

2017]