

Product datasheet for **RG231934**

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231934 representing NM_001195308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGATTTGTAGTAACAGCACCACTGCTCGAAACCGTTCTAAGACTGCTTTGTATGTGACTCCCC
TGGATCGAGTCACTGAGTTGGAGGTGAGCTGCATGAAGATGGAGGAAAACCTTCTGCACCTTCTGCAA
TGTGGTTCTGAATCATGTTTCGCAAGTCTGCCATTAGTGACCACCTCAAGTCAAAGACTCATAACAGAGG
AAGGCAGAATTTGAAGAGCAGAATGTGAGAAAGAAGCAGAGGCCCTAACTGCATCTCTTCAGTGAACA
GTACTGCGCAAACAGAGAAAGTCAGTGTATCCAGGACTTGTGAAAATGTGCCTGGAAGCCAACATCCC
ACTTGAGAAGGCTGATCACCCAGCAGTCCGTGCTTTCCTATCTCGCCATGTGAAGAATGGAGGCTCCATA
CCTAAGTCAGACCAGCTACGGAGGGCATATCTTCTGATGGATATGAGAATGAGAATCAACTCCTCAACT
CACAAGATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231934 representing NM_001195308
Red=Cloning site Green=Tags(s)

MERFVVTAPPARNRSKTALYVTPLDREVTEFGGELHEDGGKLFCTSCNVVLNHRKSAISDHLKSKHTKR
KAEFEEQNVRKKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPELKADHPAVRAFLSRHVKNNGSI
PKSDQLRRAYLPDGYENENQLLNSQDC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	<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_001195308.1, NP_001182237.1</u>
RefSeq Size:	4589 bp
RefSeq ORF:	504 bp
Locus ID:	8545
UniProt ID:	<u>Q9UFW8</u>
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]