

## Product datasheet for **RC208653**

### CGGBP1 (NM\_003663) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CGGBP1 (NM\_003663) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CGGBP1  
**Synonyms:** CGGBP; p20-CGGBP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC208653 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCGATTTGTAGTAACAGCACCACTGCTCGAAACCGTTCTAAGACTGCTTTGTATGTGACTCCCC  
TGGATCGAGTCACTGAGTTTGGAGGTGAGCTGCATGAAGATGGAGGAAAACCTTCTGCACCTTCTGCAA  
TGTGGTTCTGAATCATGTTTCGCAAGTCTGCCATTAGTGACCACCTCAAGTCAAAGACTCATAACCAAGAGG  
AAGGCAGAATTTGAAGAGCAGAATGTGAGAAAAGAAGCAGAGGCCCTAACTGCATCTCTTCAGTGAACA  
GTACTGCGCAAACAGAGAAAGTCAGTGTATCCAGGACTTTGTGAAAATGTGCCTGGAAGCCAACATCCC  
ACTTGAGAAGGCTGATCACCCAGCAGTCCGTGCTTTCCTATCTCGCCATGTGAAGAATGGAGGCTCCATA  
CCTAAGTCAGACCAGCTACGGAGGGCATATCTTCTGATGGATATGAGAATGAGAATCAACTCCTCAACT  
ACAAGATTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208653 protein sequence  
Red=Cloning site Green=Tags(s)

MERFVVTAPPARNRSKTALYVTPPLDRVTEFGGELHEDGGKLFCTSCNVVLNHRKSAISDHLKSKHTKR  
KAEEFEQNVRRKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPELKADHPAVRAFLSRHVKNNGSSI  
PKSDQLRRAYLPDGYENENQLLSQDC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

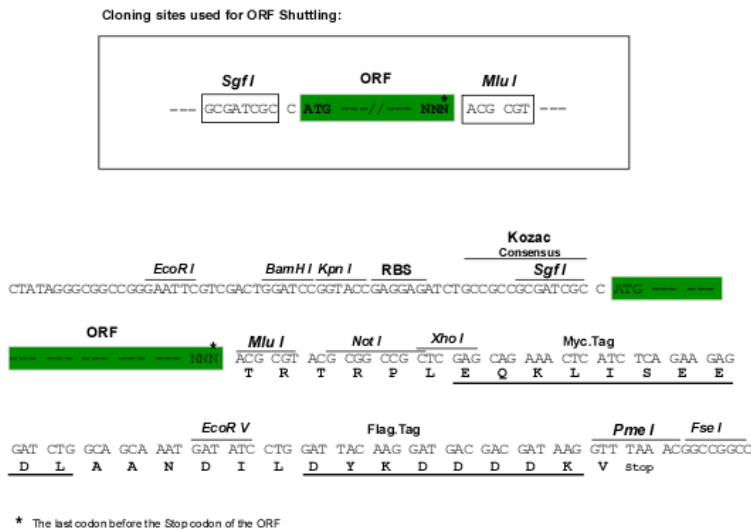
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6361\\_b02.zip](https://cdn.origene.com/chromatograms/mk6361_b02.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_003663

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.

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\\_003663.3](#), [NP\\_003654.3](#)

RefSeq Size: 4506 bp

RefSeq ORF: 504 bp

Locus ID: 8545

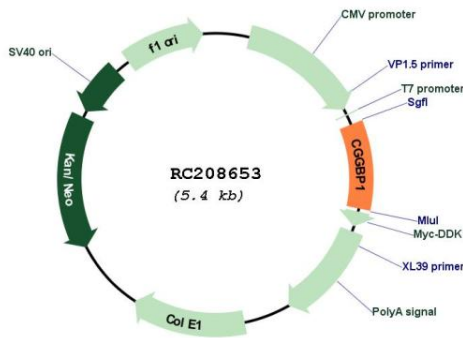
UniProt ID: [Q9UFW8](#)

**Cytogenetics:** 3p11.1

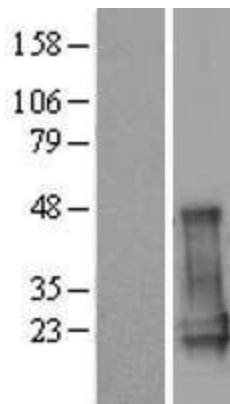
**MW:** 18.8 kDa

**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]

**Product images:**



Circular map for RC208653



Western blot validation of overexpression lysate (Cat# [LY423417]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223883] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CGGBP1 protein (Cat# [TP308653]). The protein was produced from HEK293T cells transfected with CGGBP1 cDNA clone (Cat# RC208653) using MegaTran 2.0 (Cat# [TT210002]).