OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC223883

CGGBP1 (NM_001008390) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGGBP1 (NM_001008390) 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:

>RC223883 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGATTTGTAGTAACAGCACCACCTGCTCGAAACCGTTCTAAGACTGCTTTGTATGTGACTCCCC
TGGATCGAGTCACTGAGTTTGGAGGTGAGCTGCATGAAGATGGAGGAAAACTCTTCTGCACTTCTTGCAA
TGTGGTTCTGAATCATGTTCGCAAGTCTGCCATTAGTGACCACCTCAAGTCAAAGACTCATACCAAGAGG
AAGGCAGAATTTGAAGAGCAGAATGTGAGAAAGAAGCAGAGGCCCCTAACTGCATCTCTTCAGTGCAACA
GTACTGCGCAAACAGAGAAAGTCAGTGTTATCCAGGACTTTGTGAAAATGTGCCTGGAAGCCAACATCCC
ACTTGAGAAGGCTGATCACCCAGCAGTCCGTGCTTTCCTATCTCGCCATGTGAAGAATGGAGGCTCCATA
CCTAAGTCAGACCAGCTACGGAGGGCATATCTTCCTGATGGATATGAGAATGAGAATCAACTCCTCAACT
CACAAGATTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223883 protein sequence
Red=Cloning site Green=Tags(s)

MERFVVTAPPARNRSKTALYVTPLDRVTEFGGELHEDGGKLFCTSCNVVLNHVRKSAISDHLKSKTHTKR
KAEFEEQNVRKKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPLEKADHPAVRAFLSRHVKNGGSI
PKSDQLRRAYLPDGYENENQLLNSQDC

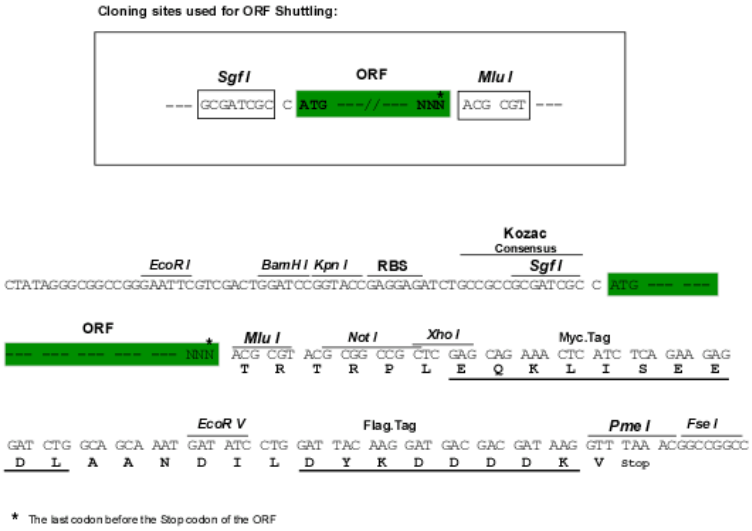
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6361_b02.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008390

ORF Size: 501 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

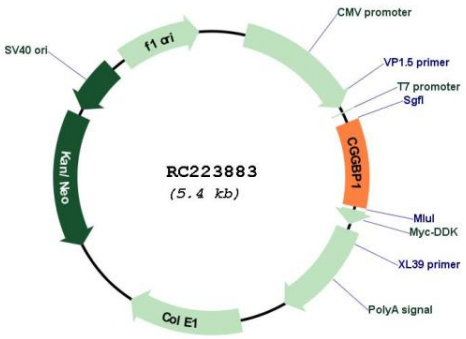
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

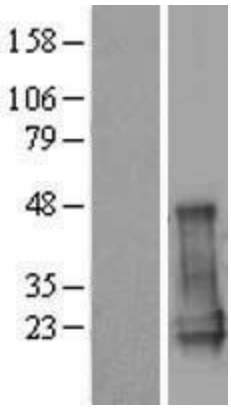
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001008390.2
RefSeq Size:	4608 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]

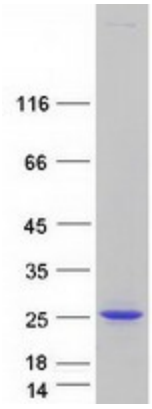
Product images:



Circular map for RC223883



Western blot validation of overexpression lysate (Cat# [LY423417]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected 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# [TP323883]). The protein was produced from HEK293T cells transfected with CGGBP1 cDNA clone (Cat# RC223883) using MegaTran 2.0 (Cat# [TT210002]).