

Product datasheet for **SC117847**

CGGBP1 (NM_003663) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGGBP1 (NM_003663) Human Untagged Clone
Tag:	Tag Free
Symbol:	CGGBP1
Synonyms:	CGGBP; p20-CGGBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117847 sequence for NM_003663 edited (data generated by NextGen Sequencing)

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ATGGAGCGATTTGTAGTAACAGCACCACCTGCTCGAAACCGTTCTAAGACTGCTTTGTAT
GTGACTCCCCTGGATCGAGTCACTGAGTTTGGAGGTGAGCTGCATGAAGATGGAGGAAAA
CTCTTCTGCACCTTCTTGCAATGTGGTTCTGAATCATGTTGCAAGTCTGCCATTAGTGAC
CACCTCAAGTCAAAGACTCATACCAAGAGGAAGGCAGAATTTGAAGAGCAGAATGTGAGA
AAGAAGCAGAGGCCCTAACTGCATCTCTTCAGTGCAACAGTACTGCGCAAACAGAGAAA
GTCAGTGTATCCAGGACTTTGTGAAAATGTGCCTGGAAGCCAACATCCCCTTGAGAAG
GCTGATCACCCAGCAGTCCGTGCTTTCCTATCTCGCCATGTGAAGAATGGAGGCTCCATA
CCTAAGTCAGACCAGCTACGGAGGGCATATCTTCTGATGGATATGAGAATGAGAATCAA
CTCCTCAACTCACAAGATTGTTGA
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Clone variation with respect to NM_003663.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003663 unedited
 ATTTGTAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCGGCGGCAGCGAC
 GGATCCTCCTCCTCCCTTATTCCTTGCTCCTTTTCTTCTTTTCTTTTCCGGC
 CGGGCTCGTCCACTTCCCTAACGGGCGGCTCGATCCTACGTAAGGCATGACTTCCTG
 GCACCACAGGGAAAATCGGGTGAAGCCAGAACTATTTCCACCACCCTTGTGAA
 AAATGATTTGAAGGCATCTCCGGGTTGAACAAACGAAAGTCCAGGATTTGATGCGT
 CTCTGGTTTCGCTCTGGAGACCATCCCTGCTAAGTATCAAGACGAAAAAACTGGAAAC
 TAATCCGAACCATATTTATTTAGAGTCAGAATGGAGCGATTTGTAGTAACAGCACCACT
 GCTCGAAACCGTTCTAAGACTGCTTTGTATGTGACTCCCCTGGATCGAGTCACTGAGTTT
 GGAGGTGAGCTGCATGAAGATGGAGGAAAACCTTCTGCACCTTCTGCAATGTGTTCTG
 AATCATGTTTCGCAAGTCTGCCATTAGTGACCACCTCAAGTCAAAGACTCATACCAAGAGG
 AAGGCAGAATTTGAAGAGCAGAATGTGAGAAAGAAGCAGAGGCCCTAACTGCATCTCTT
 CAGTGAACAGTACTGCGCAAACAGAGAAAGTCAGTGTATCCAGGACTTGTGAAAATG
 TGCTGGAAGCCAACATCCCACTTGAGAAGGCTGATCACCCAGCAGTCCGTGCTTTCCTA
 TCTCGCCATGTGAAGAATGGAGGCTNCATACCTAAGTCAGACCAGCTACGGAGGCATAT
 CTTNCTGATGGATATGAGAATGAGAATCAACTCCTCACTCACAGATTGTGACTANNGAGG
 TACACCATTGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003663 unedited
 GGCAACCTCCAGGTCCAGNAAAGCACTGGGGCAGGGGTACAGGGATGCCACCCGGGA
 TCTGTTCCAGGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTT
 TTTTCTGTTTTGAAATCAGGAAATATATTTGTCATTGACTCACAAAACAAAATGTGCTTT
 CAAAATCTTTGAAACAATTTTTCTGAAATTTATTTCTAAAAGTCAGAGACAAAACCTTA
 GAAGTGACACATTTATACTAAGCATACATGCGTGAGCAAAAAAATAAGCACAGAATACA
 AAAATGAAATAGTAAAATTTAATACAGTATTCTGAATACAAGTAGAATACCACTAGATA
 AGAATTGTATTTACCTAAGAAATCTATGATAGTGTGGGTGGAGATAAACCAGTTTAGGAT
 AGCCACTTCACTATTCACATTTAATCAGTGTGACCAGAAGCTAAAGCAATTTCTTTTA
 GGCTAAGATTGGCAAAAAATCATAGACCAATTTTCTTGTATGAATCAAAATGAACATG
 TTTTAAGGTGATTTGCCCTCATTTAACGGTAGCTGGAGTAAGTCAAACCACAGAGAGCCC
 TTACAAAAGACTAAGCACCAATGATGAAGTGTGTTGTTGTTGTTTGGCCATCTTAA
 GTTTTTGTGTTTCCATTAACATTCATGTGCAAAATCTTACAGGCAAAAGTTNTAAACGTG
 TAAGTTTCAGCTTTGGNAGATCTTGCCAACTGTACTTACAACAGTTTTAAAGCAATTGAT
 ACTTTCAGAACAATCTCAAGCTTAANTGGNTACCATTNATAGATGCAGAACTTTTTATG
 GTTTTCTGGTCCCTGAAATNCATAGGGCCAATGCATAACTGGAATAGCATTTTTTTAAGT
 CTTATCAAGATGTATGGATAAACACTATTN

Restriction Sites:

ECoRI-NOT

ACCN:

NM_003663

Insert Size:

4400 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.