

# Recombinant Human CGGBP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CGGBP1-3101H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CGGBP1 MS Standard C13 and N15-labeled recombinant protein (NP_003654) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 18.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MERFVVTAPPARNRSKTALYVTPLDRVTEFGGELHEDGGKLFCTSCNVVLNHVRKS<br>AIDHLKSKTHTKRKAEFEEQNVRKKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLE<br>ANIPLEKADHPAVRAFLSRHVKNNGGSIPKSDQLRRAYLPDGYENENQLLNSQDCTRT<br>RPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CGGBP1 CGG triplet repeat binding protein 1 [ Homo sapiens (human) ]                                                                                                                                                                                 |
| <b>Official Symbol</b> | CGGBP1                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | CGGBP1; CGG triplet repeat binding protein 1; CGG triplet repeat-binding protein 1; CGGBP; p20 CGG binding protein; p20 CGGBP; CGG-binding protein 1; p20-CGG binding protein; 20 kDa CGG-binding protein; p20-CGGBP DNA-binding protein; p20-CGGBP; |
| <b>Gene ID</b>         | 8545                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_003663                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_003654                                                                                                                                                                                                                                            |
| <b>MIM</b>             | 603363                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>      | Q9UFW8                                                                                                                                                                                                                                               |

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**SDS-PAGE**

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