

## Recombinant Human CXXC1, His-tagged

**Cat. No.** CXXC1-27242TH    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant fragment, corresponding to amino acids 250-632 of Human CGBP with an N terminal His tag. Predicted mwt: 46 kDa,                                                                                                                  |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                        |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>            | 250-632 a.a.                                                                                                                                                                                                                                 |
| <b>Description</b>              | Proteins that contain a CXXC motif within their DNA-binding domain, such as CXXC1, recognize CpG sequences and regulate gene expression (Carlone and Skalnik, 2001                                                                           |
| <b>Conjugation</b>              | HIS                                                                                                                                                                                                                                          |
| <b>Form</b>                     | Lyophilised:Reconstitute with 92 µl aqua dest.                                                                                                                                                                                               |
| <b>Storage buffer</b>           | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                        |
| <b>Sequences of amino acids</b> | KLGRIREDEGAVASSTVKEPPEATATPEPLSDEDLPLDPD LYQDFCAGAFDDHGLP<br>WMSDTEESPFLDPALRKRAVKV KHVKRREKKSEKKKEERYKRHRQKQKHDKWK<br>HPERAD AKDPASLPQCLGPGCVRPAQPSSKYCSDDCGMKLAANRIY EILPQRIQQ<br>WQQSPCIAEEHGKKLLERIRREQQSARTR LQEMERRFHELEAILRAKQQAVREDE |

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ESNEGDSDDTD LQIFCVSCGHPINPRVALRHMERCYAKYESQTSFGSMYPT RIEG  
 ATRLFCDVYNPQSKTYCKRLQVLCPEHSRDPKVP ADEVCGCPLVRDVFELTGDFC  
 RLPKRQCNRHWCWEKLR RAEVDLERVRVWYKLDELFEQERNVRTAMTNRAGL

## GENE INFORMATION

|                     |                                                                                                                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name           | CXXC1 CXXC finger protein 1 [ Homo sapiens ]                                                                                                                                                                                                                 |
| Official Symbol     | CXXC1                                                                                                                                                                                                                                                        |
| Synonyms            | CXXC1; CXXC finger protein 1; CXXC finger 1 (PHD domain); cpG-binding protein; CFP1; CGBP; CpG binding protein; DNA binding protein with PHD finger and CXXC domain; hCGBP; HsT2645; PCCX1; PHF18; SPP1; ZCGPC1; zinc finger; CpG binding type containing 1; |
| Gene ID             | 30827                                                                                                                                                                                                                                                        |
| mRNA Refseq         | NM_001101654                                                                                                                                                                                                                                                 |
| Protein Refseq      | NP_001095124                                                                                                                                                                                                                                                 |
| MIM                 | 609150                                                                                                                                                                                                                                                       |
| Uniprot ID          | Q9P0U4                                                                                                                                                                                                                                                       |
| Chromosome Location | 18q12                                                                                                                                                                                                                                                        |
| Pathway             | Activation of Chaperones by IRE1alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Unfolded Protein Response, organism-specific biosystem;                                                                                  |

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**Function**

DNA binding; contributes\_to histone methyltransferase activity (H3-K4 specific); metal ion binding; protein binding; unmethylated CpG binding;

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