

Product datasheet for **RG203937**

CGBP (CXXC1) (NM_014593) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGBP (CXXC1) (NM_014593) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CGBP
Synonyms:	2410002I16Rik; 5830420C16Rik; CFP1; CGBP; hCGBP; HsT2645; PCCX1; PHF18; SPP1; ZCGPC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG203937 representing NM_014593
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGGAGATGGTTCAGACCCAGAGCCTCCAGATGCCGGGAGGACAGCAAGTCCGAGAATGGGGAGA
ATGCGCCCATCTACTGCATCTGCCGCAAACCGGACATCAACTGCTTCATGATCGGGTGTGACAACTGCAA
TGAGTGGTTCCATGGGGACTGCATCCGGATCACTGAGAAGATGGCCAAGGCCATCCGGGAGTGGTACTGT
CGGGAGTGCAGAGAGAAAGACCCCAAGCTAGAGATTTCGCTATCGGCACAAGAAGTACGGGAGCGGGATG
GCAATGAGCGGGACAGCAGTGAAGCCCGGGATGAGGGTGGAGGGCGAAGAGGCCGTCCCTGATCCAGA
CCTGCAGCGCCGGCAGGGTCAAGGACAGGGGTGGGGCCATGCTTGCTCGGGCTCTGCTTCGCCCCAC
AAATCCTCTCCGAGCCCTTGGTGGCCACACCCAGCCAGCATCACCAGCAGCAGCAGCAGCAGATCAAAC
GGTCAGCCCGCATGTGTGGTGTGTGAGGCATGTGCGGCACTGAGGACTGTGGTCACTGTGATTTCTG
TCGGGACATGAAGAAGTTCGGGGCCCCAACAAGATCCGGCAGAAGTCCGGCTGCGCCAGTCCAGCTG
CGGGCCCGGGAATCGTACAAGTACTTCCCTTCTCGCTCTCACCAGTGACGCCCTCAGAGTCCCTGCCAA
GGCCCCGCGGCCACTGCCACCCAACAGCAGCCACAGCCATCACAGAAGTTAGGGCGCATCCGTGAAGA
TGAGGGGGCAGTGGCGTCATCAACAGTCAAGGAGCCTCCTGAGGCTACAGCCACACCTGAGCCACTCTCA
GATGAGGACCTACCTCTGGATCTGACCTGTATCAGGACTTCTGTGCAGGGGCCTTTGATGACCATGGCC
TGCCCTGGATGAGCGACACAGAAGTCCCCATTCCTGGACCCCGCGCTGCGGAAGAGGGCAGTGAAGT
GAAGCATGTGAAGCGTCGGGAGAAGAAGTCTGAGAAGAAGAAGGAGGAGCGATACAAGCGGCATCGGCAG
AAGCAGAAGCACAAGGATAAATGGAAACACCCAGAGAGGGCTGATGCCAAGGACCCTGCTCACTGCCCC
AGTGCTGGGGCCCGGCTGTGTGCGCCCCGCCAGCCAGCTCCAAGTATTGCTCAGATGACTGTGGCAT
GAAGCTGGCAGCCAACCGCATCTACGAGATCCTCCCCAGCGCATCCAGCAGTGGCAGCAGAGCCCTTGC
ATTGCTGAAGAGCACGGCAAGAAGCTGCTCGAACGCATTTCGCGAGAGCAGCAGAGTGCSCGCACTCGCC
TTCAGGAAATGGAACGCCGATTCCATGAGCTTGAGGCCATCATTCTACGTGCCAAGCAGCAGGCTGTGCG
CGAGGATGAGGAGAGCAACGAGGGTACAGTGTGACACAGACCTGCAGATCTTCTGTGTTTCTGTGGG
CACCCCATCAACCCACGTGTTGCCTTGCGCCACATGGAGCGTGTACGCCAAGTATGAGAGCCAGACGT
CCTTTGGTCCATGTACCCACACGCATTGAAGGGGCCACACGACTCTTCTGTGATGTGTATAATCCTCA
GAGCAAAACATACTGTAAGCGGCTCCAGGTGCTGTGCCCCGAGCACTCACGGGACCCCAAAGTGCAGCT
GACGAGGTATGCGGGTGCCTTGTACGTGATGTCTTTGAGCTCACGGGTGACTTCTGCCGCTGCCCA
AGCGCCAGTGCAATCGCCATTACTGCTGGGAGAAGCTGCGGCGTGCAGGAGTGGACTTGGAGCGCGTGG
TGTGTGGTACAAGCTGGACGAGCTGTTGAGCAGGAGCGCAATGTGCGCACAGCCATGACAAACCGCGG
GGATTGCTGGCCCTGATGCTGCACCAGACGATCCAGCAGATCCCTCACTACCGACCTGCGCTCCAGTG
CCGACCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203937 representing NM_014593
 Red=Cloning site Green=Tags(s)

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MEGDGSDPEPPDAGEDSKSENGENAPIYICIRKPDINCFMIGCDNCNEWFHGDCIRITEKMAKAIREWYC
RECREKDPKLEIRYRHKKSRERDGNERDSSEPRDEGGGRKRPVDPDLQRRAGSGTGVGAMLARGSASPH
KSSPQPLVATPSQHHQQQQQIIRSARMCGECEACRRTEDCGHCDFCRDMKKFGGPNKIRQKCLRQOQL
RARESYKYFPSSLSPVTPSESLPRRRPLPTQQQPQSQKLGRIREDEGAVASSTVKEPPEATATPEPLS
DEDLPLDPLYQDFCAGAFDDHGLPWMSDTEESPFLDPALRKRKRAVKVHKVRRREKSEKKKEERYKRHRQ
KQKHKDKWKHPERADAKDPASLPQCLGPGCVRPAQPSSKYCSDDCGMKLAANRIYEILPQRIQQWQQSPC
IAEEHGKLLERIRREQQSARTRLEMERFHELEAIIILRAKQAVREDEESNEGSDDDLQIFCVSCG
HPINPRVALRHMERCYAKYESQTSFGSMYPTRIEGATRLFCVVYNPQSKTYCKRLQVLCPEHSRDPKVP
DEVCGCLVRDVFELTGDFCRLPKRQCNRHYCWEKLRRAEVDLERVVRVYKLDLDELFEQERNVRTAMTNRA
GLLALMLHQTIQHDPLTTDLRSSADR
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014593

ORF Size: 1968 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_014593.3](#)

RefSeq Size: 2444 bp

RefSeq ORF: 1971 bp

Locus ID: 30827

UniProt ID: [Q9P0U4](#)

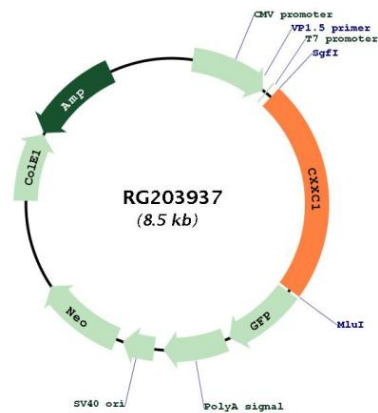
Cytogenetics: 18q21.1

Domains: PHD, zf-CXXC

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a protein that functions as a transcriptional activator that binds specifically to non-methylated CpG motifs through its CXXC domain. The protein is a component of the SETD1 complex, regulates gene expression and is essential for vertebrate development. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG203937