

## Product datasheet for **RG208486**

### CBF1 interacting corepressor (CIR1) (NM\_004882) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CBF1 interacting corepressor (CIR1) (NM_004882) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CBF1 interacting corepressor
Synonyms:	CIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208486 representing NM\_004882  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGGAATCCTTCGCCAACTTCATGTGCAAGAAAGACTTTCATCCTGCCTCCAATCCAATATCAAAA  
 AAGTATGGATGGCAGAACAGAAAATATCATATGATAAGAAGAAACAAGAAGAATTGATGCAGCAATATCT  
 TAAAGAACAAGAATCATATGATAATAGATTGCTTATGGGAGATGAACGTGTAAGAATGGCCTTAATTTTC  
 ATGTATGAAGCCCCACCAGGAGCTAAAAAGAAAAAACAAGAGAAAGAAGAAACAGAAGGAGAGACCGAAT  
 ACAAAATTTGAATGGCAGAAAGGAGCCCCACGAGAAAAATATGCCAAAGATGACATGAACATCAGAGATCA  
 GCCCTTTGGTATTCAGGTTGCAATGTGAGGTGCATTAATGTCACAAATGGGGTCATGTCAACACAGAT  
 CGAATATGTCCTTTGTTGGTCTTTCTGGAATCAATGCAAGTTCGGTCCCACTGATGGCTCAGGGCCAT  
 CGATGCACCCCTCGGAGCTAATAGCGGAGATGAGAAACAGTGGGTTTGCCTGAAACGAAATGTACTGGG  
 GAGAACTTGACGCAATGATCCATCACAGGAGTATGTTGCAAGTGAGGGTGAAGAAGATCCAGAAGTT  
 GAATTTTTAAAGTCACTAACACCAAAACAAAAACAGAACTTCTCAGGAAATTAGATCGACTGGAGAAGA  
 AAAAAAGAAAAAGATAGAAAAAGAAAAAGTTTCAGAAGAGCAGAAGTAAACACAAAAACATAAGTC  
 CTCTTCTCCTCATCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTC  
 GAGAGTAAACAATAAGAAAAAAAATACAAGGAAGAAAAAGAAAAACAAGTGTTCAGGGCATAACA  
 ACAGTGATTCTGAAGAGAAGGACAAGTCTAAGAAGAGAAAGCTTCATGAAGAAGTCTTAGCAGTACCA  
 TAACCGGAAAAAGCCAAGGAAAAGCCAGGTTCTTAAAAACAGAGATTCTAGGGAGGACAGCAATGG  
 AGGAGGGGAGCAGCAGAAGCCAGGCAGGAGGAAAGGAGCCGGAGAAGCCGGAGCAGAAGTCTGGTAG  
 TTACAAGCAAAGGGAGACAAGGAAACGGGCACAGCGAAATCCTGGTGAAGAGCAAAGCAGAAGAAATGAC  
 AGCAGAAGCCATGGCACAGACTGTATAGAGGAGAAAAATGTACAGAGAGCACCAGGAGGTACACATA  
 CTAAGTGACACAAAGAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208486 representing NM\_004882  
 Red=Cloning site Green=Tags(s)

MGKSFANFMCKKDFHPASKSNIKKVWMAEQKISYDKKKQEELMQQYLKEQESYDNRLMGDERVKGNLNF  
 MYEAPPGAKKENKEKEETEGETEYKFEWQKGAPREKYAKDDMNIRDQPFQIQRVNRVRCIKCHKWGHVNTD  
 RECPLFGLSGINASSVPTDGSGPSMHPSELIAEMRNSGFALKRNLGRNLTANDPSQEYVASEGEEDPEV  
 EFLKSLTTKQKQLLRKLDRLKLEKKKKKDRKKKFKQSRSKHKKHKSSSSSSSSSSSSSTETSESSSES  
 ESNNKEKKIQRKKRKNKCSGHNNSDSEKDKSKRKLHEELSSSHHNREKAKEKPRFLKHESREDSKW  
 SHSDSKKSRTHKHSPEKRGSRKEGSSSRSHGREERSRRSRSPGSYKQRETRKRAQRNPGEEQSRRND  
 SRSHGTDLYRGEKMYREHPGGTHTKVTQRE

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_004882

**ORF Size:** 1350 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\\_004882.4](#)

**RefSeq Size:** 1809 bp

**RefSeq ORF:** 1353 bp

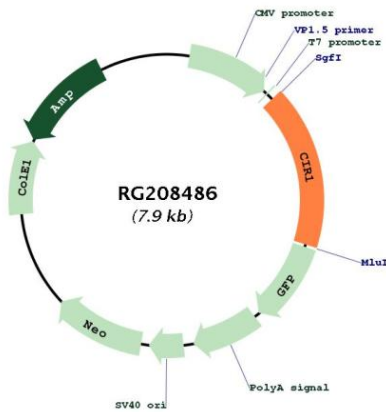
**Locus ID:** 9541

**UniProt ID:** [Q86X95](#)

**Cytogenetics:** 2q31.1

Protein Families:	Transcription Factors
Protein Pathways:	Notch signaling pathway
Gene Summary:	May modulate splice site selection during alternative splicing of pre-mRNAs (By similarity). Regulates transcription and acts as corepressor for RBPJ. Recruits RBPJ to the Sin3-histone deacetylase complex (HDAC). Required for RBPJ-mediated repression of transcription. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG208486