

Product datasheet for **RG210722**

CREBL2 (NM_001310) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CREBL2 (NM_001310) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CREBL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210722 representing NM_001310
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACAGTAAGGTGGTTGGAGGCAAAGTAAAGAAGCCCGGTAAACGTGGTCGGAAGCCAGCCAAAA
TTGACTTGAAAGCAAACCTTGAGAGGAGCCGGCAGAGTGCAAGAGAATGCCGAGCCCGAAAAAGCTGAG
ATATCAGTATTTGGAAGAGTTGGTATCCAGTCGAGAAAGAGCTATATGTGCCCTCAGAGAGGAAGCTGGAA
ATGTACAAGCAGTGGTGCATGGCAATGGACCAAGGAAAAATCCCTTCTGAAATAAAGGCCCTACTCACTG
GAGAAGAGCAGAACAAATCTCAGCAGAACTCAAGCAGGCATACCAAGGCTGGGAAGACAGATGCTAATAG
CAATTCCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210722 representing NM_001310
Red=Cloning site Green=Tags(s)
MDDSKVVGKVKKPGKRGRKPAKIDLKAKLERSRQSARECRARKKLRQYLEELVSSRERAICALREELE
MYKQWCMAMDQGKIPSEIKALLTGEEQNKSQNNSRHKAGKTDANSNSW

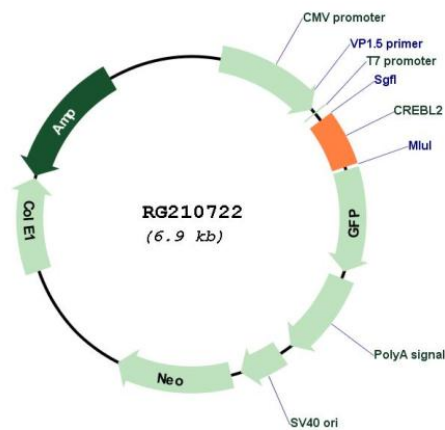
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:

ACCN:

NM_001310

ORF Size:

360 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:	<ol style="list-style-type: none">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:	<u>NM_001310.4</u>
RefSeq Size:	3748 bp
RefSeq ORF:	363 bp
Locus ID:	1389
UniProt ID:	<u>O60519</u>
Cytogenetics:	12p13.1
Protein Families:	Transcription Factors
Gene Summary:	cAMP response element (CRE)-binding protein-like-2 (CREBL2) was identified in a search to find genes in a commonly deleted region on chromosome 12p13 flanked by ETV6 and CDKN1B genes, frequently associated with hematopoietic malignancies, as well as breast, non-small-cell lung and ovarian cancers. CREBL2 shares a 41% identity with CRE-binding protein (CREB) over a 48-base long region which encodes the bZip domain of CREB. The bZip domain consists of about 30 amino acids rich in basic residues involved in DNA binding, followed by a leucine zipper motif involved in protein dimerization. This suggests that CREBL2 encodes a protein with DNA binding capabilities. The occurrence of CREBL2 deletion in malignancy suggests that CREBL2 may act as a tumor suppressor gene. [provided by RefSeq, Jul 2008]