

## Product datasheet for **RG237942**

### CEBP Alpha (CEBPA) (NM\_001287424) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEBP Alpha (CEBPA) (NM_001287424) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEBPA
Synonyms:	C/EBP-alpha; CEBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237942 representing NM_001287424. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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CGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCCATGGAGTCGGCCGACTTCTACGAGCGGAGCCG
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CGGGGCGCGGGCCCCGCGCAGCCTCCCGCCCCACCTGCCGCCCGGAGCCGCTGGGCGGCATCTGCGAG
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GGTGCCGCCCGCTGCCGGGCCCTGGCAGCGCGCTCAAGGGGCTGGGCGCGCGCACCCCGACCTCCGC
GCGAGTGGCGGAGCGGCGCGGCAAGGCCAAGAAGTCGGTGGAACAAGACAGCAACGAGTACCGGGTG
CGGCGCAGCGCAACAACATCGCGGTGCGCAAGAGCCGCGACAAGGCCAAGCAGCGCAACGTGGAGACG
CAGCAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCCTGCGCAAGCGGGTGAACAGCTGAGCCGC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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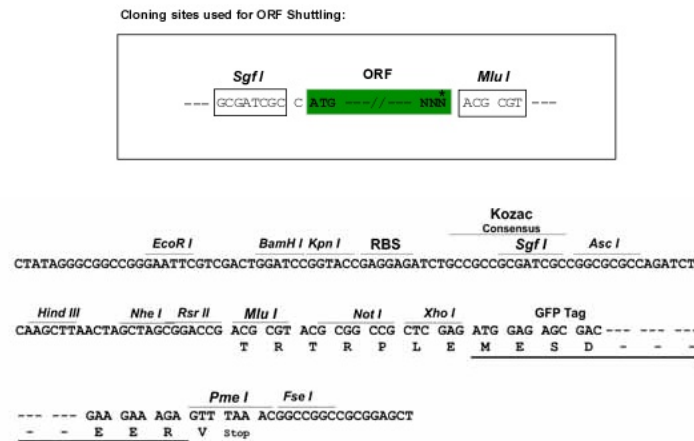


Protein Sequence: >Peptide sequence encoded by RG237942  
Blue=ORF Red=Cloning site Green=Tag(s)

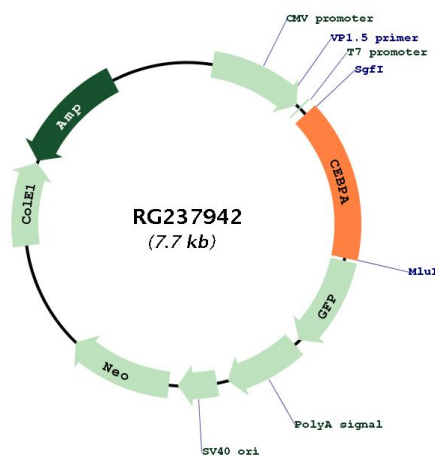
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GDFDYPGAPAGPGGAVMPGGAHGPPPGYCAAAGYLDGRLEPL YERVGAPALRPLVIKQEPREDEAKQ  
LALAGLFPYQPPPPPPSHPHPHPPPAHLAAPHLQFQIAHCGQTTMHLQPGHPTPPPTPVPSHPAPAL  
GAAGLPGPGSALKGLGAAHPDLRASGGSGAGKAKKSVDKNSNEYRVRRERNNIIVRKS RDKAKQRNVET  
QQKVLELTSDNDRLRKRVEQLSRELDLRLGIFRQLPESSLVKAMGNCA  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
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SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:





<b>ACCN:</b>	NM_001287424
<b>ORF Size:</b>	1179 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001287424.2</a>
<b>RefSeq Size:</b>	2631 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	1050
<b>UniProt ID:</b>	<a href="#">P49715</a>
<b>Cytogenetics:</b>	19q13.11
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Acute myeloid leukemia, Pathways in cancer
<b>MW:</b>	41.7 kDa
<b>Gene Summary:</b>	This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP) domain and recognizes the CCAAT motif in the promoters of target genes. The encoded protein functions in homodimers and also heterodimers with CCAAT/enhancer-binding proteins beta and gamma. Activity of this protein can modulate the expression of genes involved in cell cycle regulation as well as in body weight homeostasis. Mutation of this gene is associated with acute myeloid leukemia. The use of alternative in-frame non-AUG (GUG) and AUG start codons results in protein isoforms with different lengths. Differential translation initiation is mediated by an out-of-frame, upstream open reading frame which is located between the GUG and the first AUG start codons. [provided by RefSeq, Dec 2013]