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Product datasheet for RG216439

KAT3A / CBP (CREBBP) (NM_001079846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT3A / CBP (CREBBP) (NM_001079846) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CREBBP
Synonyms:	CBP; KAT3A; MKHK1; RSTS; RSTS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216439 representing NM_001079846
Red=Cloning site Blue=ORF Green=Tags(s)

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ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216439 representing NM_001079846
Red=Cloning site Green=Tags(s)

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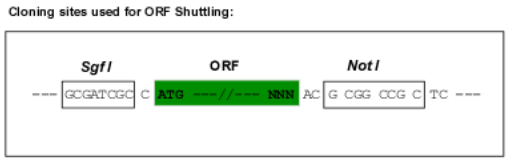
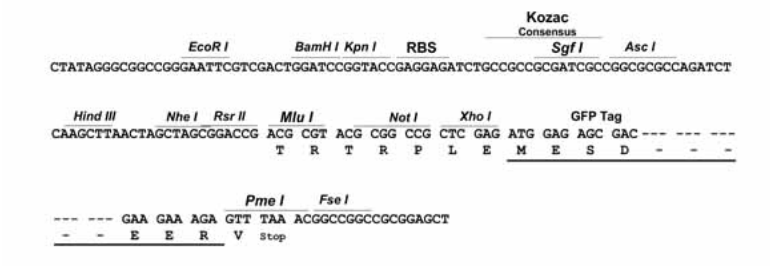
TRPLE - GFP Tag - V

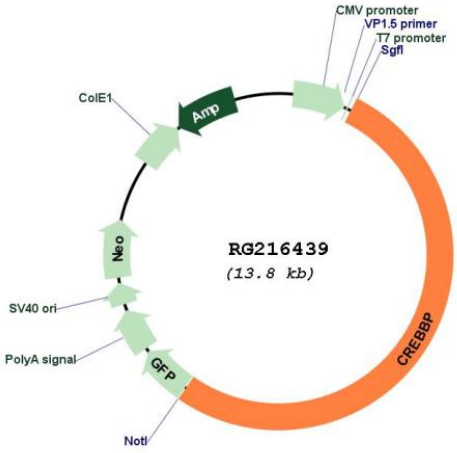
Restriction Sites: SgfI-NotI

Cloning Scheme:





Plasmid Map:



ACCN: NM_001079846

ORF Size:	7212 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_001079846.1, NP_001073315.1
RefSeq Size:	10083 bp
RefSeq ORF:	7215 bp
Locus ID:	1387
UniProt ID:	Q92793
Cytogenetics:	16p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Cell cycle, Huntington's disease, Jak-STAT signaling pathway, Long-term potentiation, Melanogenesis, Notch signaling pathway, Pathways in cancer, Prostate cancer, Renal cell carcinoma, TGF-beta signaling pathway, Wnt signaling pathway

Gene Summary: This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2009]