

Product datasheet for **RG232646**

AIBZIP (CREB3L4) (NM_001255978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AIBZIP (CREB3L4) (NM_001255978) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CREB3L4
Synonyms:	AIBZIP; ATCE1; CREB3; CREB4; hJAL; JAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232646 representing NM_001255978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCAGAGGATATCTTCTCGACAGGAT
CCGTCCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGTTCCGGTAACTAGGCTACAGGAACAGGGACT
GCAAGGCTGGAAGTCCGGTGGGACCGTGGCTGTGGCCTCAAGAGAGTGAGCCTGAAGATTTCTGAAG
CTTTTCATTGATCCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGCCATCTCTGAGG
ACCCCTGCCATCCAGACAGTCCCCCTGCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTA
TGAGGCAGGGGCCCTGGAGAGGATGCAGGGGAAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTA
GATCAGTGGAGCCAGCATTATGGTGCCTGATTCTGCATGGTCAAGTCAAGTGGCTGACGCTGCCCTTTGATGCTCATG
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GTTCTGACCGATGAGGAGAAGCGTCTGCTGGGGCAGGAAGGGTTTCCCTGCCCTCTCACCTGCCCCCTC
ACCAAGGCAGAGGAGAGGGTCTCAAGAAGTCAAGGAGGAAAAATCCGTAACAAGCAGTCACTCAGGACA
GTCGGCGCGGAAGAAGGAGTACATTGATGGCTGGAGAGCAGGGTGGCAGCCTGTTCTGCACAGAACCA
AGAATTACAGAAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGTAGCTCAGCTCCGCCAGCTG
CAGACGCTAATTGCTCAAACCTCCAACAAGCTGCCAGACCAGCATTGTGTTTTGATTCTTCTTTTTT
CCCTGGCTCTCATCATCCTGCCAGCTTCAAGTCCATTCCAGAGTCGACCAGAAGCTGGGTCTGAGGATTA
CCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAAATCTGGAGACCCAA
GTGGTAGAGTCCAGACTGAGGGACCCCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTG
AGAAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATG

ACGGGCCGCTCGAG - GFP Tag - GTTTAA



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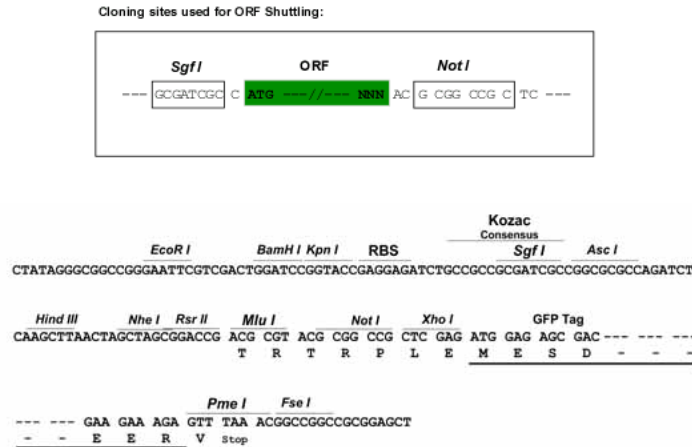
Protein Sequence: >RG232646 representing NM_001255978
 Red=Cloning site Green=Tags(s)

MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQLQGWKSGGDRGCGLQESEPEDFLK
 LFIDPNEVYCSEASPGSDSGISEDPCHPDSPAPRATSSPMLYEVVYEAGALERMQGETGPNVGLISIQ
 DQWSPAFMVPDSCMVSELPFDAHAHILPRAGTVAPVPCITLLPCQTLFLTDEEKRLLGQEGVSLPSHLPL
 TKAERVLKVKVRRKIRNKQSAQDSRRRKEYIDGLESRVAACSAQNQELQKKVQELERHNIISLVAQLRQL
 QTLIAQTSNKAQTSTCVLILLFSLALIIILPSFSPFQSRPEAGSEDYQPHGVTSRNILTHKDVNTLETQ
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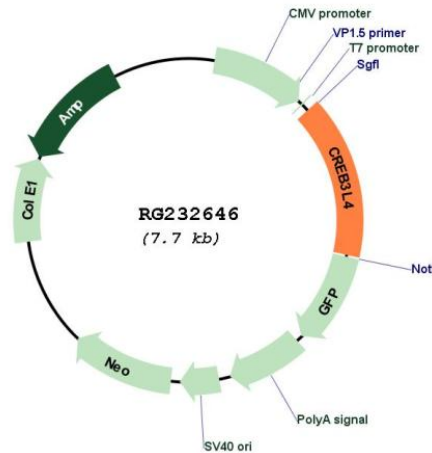
TRPLE - GFP Tag - V

Restriction Sites: SgfI-NotI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001255978

ORF Size:	1185 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:	NM_001255978.2
RefSeq Size:	1829 bp
RefSeq ORF:	1188 bp
Locus ID:	148327
UniProt ID:	Q8TEY5
Cytogenetics:	1q21.3
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease, Melanogenesis, Prostate cancer
Gene Summary:	This gene encodes a CREB (cAMP responsive element binding) protein with a transmembrane domain which localizes it to the ER membrane. The encoded protein is a transcriptional activator which contains a dimerization domain, and this protein may function in a number of processing pathways including protein processing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]