

## Product datasheet for **RC232646**

### **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:	Myc-DDK
Symbol:	AIBZIP
Synonyms:	AIBZIP; ATCE1; CREB3; CREB4; hJAL; JAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232646 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCAGAGGATATCTTCTCGACAGGAT  
CCGTCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGGTTCCGGTAAGTACGCTACAGGAACAGGGACT  
GCAAGGCTGGAAGTCCGGTGGGACCGTGGCTGTGGCCTTCAAGAGAGTGAGCCTGAAGATTCTTGAAG  
CTTTTCATTGATCCCAATGAGGTGACTGCTCAGAAGCATCTCTGGCAGTGACAGTGGCATCTCTGAGG  
ACCCCTGCCATCCAGACAGTCCCTGCCCCAGGGCAACAGTTCTCCTATGCTCTATGAGGTTGTCTA  
TGAGGCAGGGGCCCTGGAGAGGATGCAGGGGAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTA  
GATCAGTGGAGCCAGCATTTATGGTGCCTGATTCTGTCATGGTCACTGAGCTGACCTTTGATGCTCATG  
CCCACATCCTGCCAGAGCAGGCACCGTAGCCCCAGTGCCTGTACAACCTGCTGCCCTGTCAAACCTC  
GTTCTGACCGATGAGGAGAAGCGTCTGCTGGGCGAGGAAGGGTTTCCCTGCCCTCTCACCTGCCCTC  
ACCAAGGCAGAGGAGAGGGTCTCAAGAAGTCAAGGAGGAAATCCGTAACAAGCAGTCAGCTCAGGACA  
GTGGCGGCGGAAGAAGGAGTACATTGATGGGCTGGAGAGCAGGTTGGCAGCCTGTTCTGCACAGAACCA  
AGAATTACAGAAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCTTGGTAGCTCAGCTCCGCCAGCTG  
CAGACGCTAATTGCTCAAACTTCCAACAAGCTGCCAGACCAAGCACTTGTGTTTGATTCTTCTTTTTT  
CCCTGGCTCTCATCATCCTGCCAGCTTCAGTCCATTCCAGAGTCGACCAGAAGCTGGGTCTGAGGATTA  
CCAGCCTCACGGAGTGACTTCCAGAAATATCTGACCCACAAGGACGTAACAGAAATCTGGAGACCCAA  
GTGGTAGAGTCCAGACTGAGGGAGCCACCTGGAGCCAAGGATGCAATGGCTCAACAAGGACACTGCTTG  
AGAAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATG

AC**CGGGCCG**CTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTTGGG  
TTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC232646 protein sequence  
 Red=Cloning site Green=Tags(s)

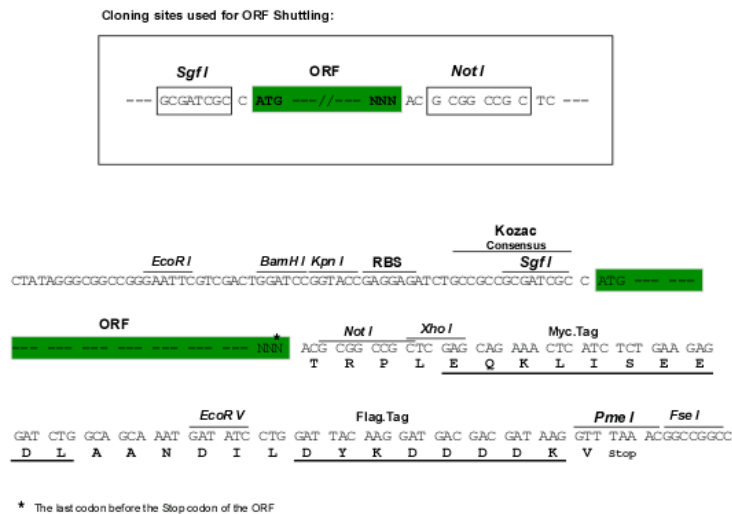
MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQLQGWSGGDRGCGLQESEPEDFLK  
 LFIDPNEVYCSEASPGSDSGISEDPCHPDSPAPRATSSPMLYEVVYEAGALERMQGETGPNVGLISIQ  
 DQWSPAFMVPDSCMVSELPFDAHILPRAGTVAPVPCITLLPCQTLFLTDEEKRLLGQEGVSLPSHLPL  
 TKAERVLKKVRRKIRNKQSAQDSRRRKKEYIDGLESRVAACSAQNQELQKKVQELERHNISLVAQLRQL  
 QTLIAQTSNKAQTSTCVLILLFSLALIIILPSFSPFQSRPEAGSEDYQPHGVTSRNILTHKDVNTLETQ  
 VVESRLREPPGAKDANGSTRITLLEKMGKPRPSGRIRSVLHADEM

TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6800\\_h09.zip](https://cdn.origene.com/chromatograms/mk6800_h09.zip)

**Restriction Sites:** SgfI-NotI

**Cloning Scheme:**



**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:**

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

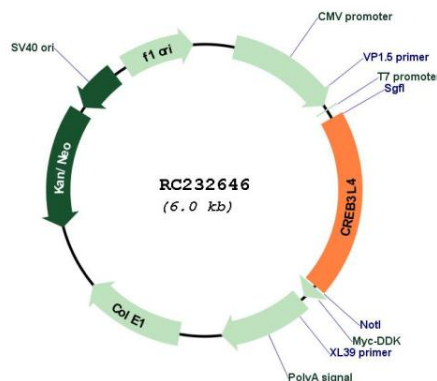
**Protein Families:** Transcription Factors

**Protein Pathways:** Huntington's disease, Melanogenesis, Prostate cancer

**MW:** 43.4 kDa

**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]

## Product images:



Circular map for RC232646