

## Product datasheet for RC232647

### AIBZIP (CREB3L4) (NM\_001255979) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AIBZIP (CREB3L4) (NM_001255979) 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:	>RC232647 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCAGAGGATATCTTCTCGACAGGAT  
CCGTCCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGTTCCGGTAACTAGGCTACAGGAACAGGGACT  
GCAAGGCTGGAAGTCCGGTGGGGACCGTGGCTGTGGCCTCAAGAGAGTGAGCCTGAAGATTTCTGAAG  
CTTTTCATTGATCCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGGCATCTCTGAGG  
ACCCCTGCCATCCAGACAGTCCCCCTGCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTA  
TGAGGCAGGGGCCCTGGAGAGGATGCAGGGGAAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTA  
GATCAGTGGAGCCAGCATTTATGGTGCCTGATTCTGTCATGGTCAAGTGGCTGAGCTGCCCTTTGATGCTCATG  
CCCACATCCTGCCAGAGCAGGCACCGTAGCCCAAGTGCCTGTACAACCCTGCTGCCCTGTCAAACCCCT  
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GTCCGGCGCGGAAGAAGGAGTACATTGATGGCTGGAGAGCAGGGTGGCAGCCTGTTCTGCACAGAACCA  
AGAATTACAGAAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGTAGCTCAGCTCCGCCAGCTG  
CAGACGTAATTGCTCAAACCTCCAACAAGCTGCCAGACCAGCATTGTGTTTTGATTCTTCTTTTTT  
CCCTGGCTCTCATCATCCTGCCAGCTTCACTCAGTCCATTCCAGAGTGCACCAGAAGCTGGGTCTGAGGATTA  
CCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAATCTGGAGACCCAA  
GTGGTAGAGTCCAGACTGAGGGACCCCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTG  
AGAAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATG

AC**GGGCCGCT**CGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
TTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232647 protein sequence  
Red=Cloning site Green=Tags(s)

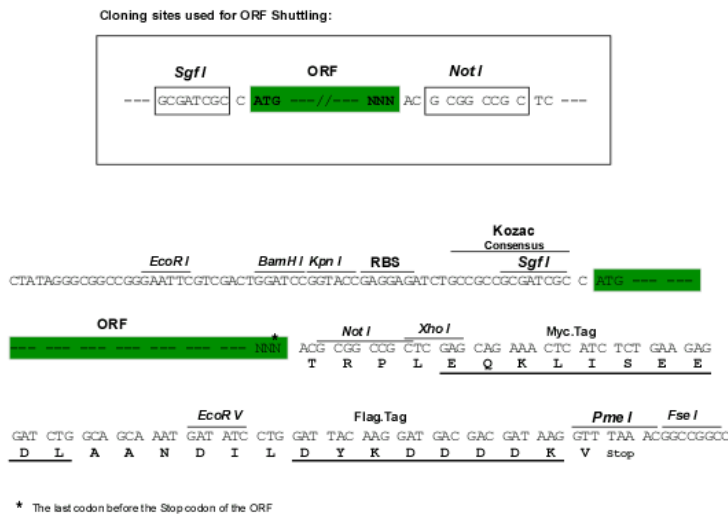
MDLGIPDLLDAWLEPPEDIFSTGVSLELGLHCPPPEVPVTRLQEQLQGWKSGGDRGCGLQESEPEDFLK  
 LFIDPNEVYCSEASPGSDSGISEDPCHPDSPAPRATSSPMLYEVVYEAGALERMQGETGPNVGLISIQ  
 DQWSPAFMVPDSCMVSELPFDAHAHILPRAGTVAPVPCITLLPCQTLFLTDEEKRLLGQEGVSLPSHLPL  
 TKAEERVLKVKRRKIRNKQSAQDSRRRKEYIDGLESRVAACSAQNQELQKKVQELERHNIISLVAQLRQL  
 QTLIAQTSNKAQTSTCVLILLFSLALIIILPSFSPFQSRPEAGSEDYQPHGVTSRNILTHKDVNTLETQ  
 VVESRLREPPGAKDANGSTRTLLEKMGKPRPSGRIRSVLHADEM

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\_001255979

**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\\_001255979.2](#)

**RefSeq Size:** 1615 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 148327

**UniProt ID:** [Q8TEY5](#)

**Cytogenetics:** 1q21.3

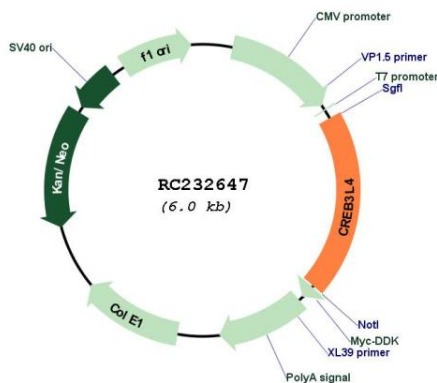
**Protein Families:** Transcription Factors

**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 RC232647