

Product datasheet for **SC103799**

CIRBP (AK094781) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIRBP (AK094781) Human Untagged Clone
Tag:	Tag Free
Symbol:	CIRBP
Synonyms:	CIRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC103799 sequence for AK094781 edited (data generated by NextGen Sequencing)

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ATGAGCAGTCGCTGGAGCAGGTCTTCTCAAAGTACGGACAGATCTCTGAAGTCTGTAGAT
GGACGGCAGATCCGAGTAGACCAGGCAGGCAAGTCGTACAGACAACCGATCCCGTGGGTAC
CGTGCTGGCTCTGCCGGGGCCGGGGCTTCTTCCGTGGGGCCGAGGACGGGGCCGTGGG
TTCTCTAGAGGAGGAGGGACCGAGGCTATGGGGGAACCGTTTCGAGTCCAGGAGTGGG
GGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGTGAC
CGGAGCTCGGGCGGGTCTACAGAGACAGTTACGACAGTTACGGTAAGTCACACTCCGAG
GGCGCCACGCTGCTGTGGCCTGCGGTGGGAGCTCGGTTACCTTGGTGCCTCTCCAAGC
ACTTTAGGCTGGACTCAGACCTTGCTACTGTGCTTGCCAGAAGAGGGGCATCTGTCC
TCTCAGAGCCATTTCTATCGCAGGACGCAAAAGCCAAATGAGACTGACCAAAAAGGCAAG
GGAGAGCGAGGGCCCGCTGGGCAGTCAGCTAGGTGCATGTGTGGCCGAGCCAGCCTCC
CTCGGCTGTGGGGGTGGTTGCTCCCCGGCCGAGGCCGCGCCCTGGTCTGGCCTCTGGG
GTGAAGCTGCCTTTGTTGCTTCGGTGCCTTTACTGTGCTTCTTGTCTCAGCT
ACACACAACGAGTAA
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Clone variation with respect to AK094781.1
333 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for AK094781 unedited
 GTTACACATTTTGTATACGACTCATATAGGCGGCCGCAAATTCGCACGAGGGGCTCGGG
 TCGTTGTGGTGCCTGTCTTCCCGCTTGCCTCAGGGACCTGCCGACTCAGTGGCCGCCA
 TGGCATCAGATGAAGGCCAACTTTTGTGGAGGGCTGAGTTTTGACACCAATGAGCAGT
 CGCTGGAGCAGGTCTTCTCAAAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACA
 GGGAGACCCAGAGATCTCGGGGATTTGGGTTTGTACCTTTGAGAACATTGACGACGCTA
 AGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATCCGAGTAGACC
 AGGCAGGCAAGTCGTACAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCC
 GGGGCTTCTTCCGTGGGGCCGAGGACGGGGCCGTGGTTCTCTAGAGGAGGAGGGGACC
 GAGGCTATGGGGGAACCGTTTCGAGTCCAGGAGTGGGGCTACGGAGGCTCCAGAGACT
 ACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGTGACCGGAGCTCGGGCGGGTCTTACA
 GAGACAGTTACGACAGTTACGGTAAGTCACACTCCGAGGGCGCCACGCTGCTGTGGCCTG
 CGGTGGGAGCTCGGTTACCTTGGTGCCTTCTCAGCACTTTAGCTGGACACTCAGACCT
 TGTCACTGTGCTTGCCAGAAGAGCGCATCTGTCTCTCAGAGCCATTTCTATCTGCAGA
 CGAAAAGCCAATGAGACTGACCAAAAAGCAAGGAAAGCTAGGCCCCCTTGGCATTAAAC
 TAGTGCATGTTTGGCCAAAGCCACCTTCCCTGGTGTGGGGTGGTCTCCCGCCCAAGC
 CCGCCCTGGTTGGCCTTTGGGGGAGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for AK094781 unedited
 GGTCCACTATGNNACCGCGCCGCAANCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 TTT
 CCTTTATTCAAATCCCACTTTCAAAGGGCTCCACATTTTTGGGGCAAGGACTGGCCCCC
 CCGTAAGCTGCCGGGCCACCGAAACCCGTCTCAAAAAAACTCGAGGCCCTGAACCCC
 CACCTTACTGGGAAAACCCCTCCTGGAAGGAGGAGGAAGGGAGGAAAACAGGCCCGGGC
 TCCAGGCAAGGGACCCGGCCCTCCCGGAGGGGCTGCCCTGGACCAAAAAAACAAAA
 GGCCCCCCCCGGGGGGCCATAGGGGCGGAAAACAGGACTCACTGAAACCCCAAGTCCC
 CCCCAGGAAAGGGTTAAACCCCATGCCATTTTTCCAAAAGCACTTACAGGGGAAAAG
 CCTCTGGGGAAGGGGTGCCTCCAGCTTTTGTCCAGGGGAAATCCCTCCTGGGACAGT
 GACCCCAAAGTTATTGTTGTTTTAGGCCACCCTTCCCGAGTCTGGCCGGGCCCTTA
 AACCTGGCAAAGAAAAGAGGGTTACTCCCAAAGTCTCCCAAGGGTTCAAATTTGCCCC
 TCCCGGCTCCCCGAAACAGCCCCAGCCCTAAGAAAGTTTAAAGCTATTCGGGGGGGT
 GTGAACCAAGGCTCCGTCAAAGCCAAAATTCCCAAGGGGGTTTGTCCCTTGGCCACC
 TGTGACCCCCCCCCCTTTGGGATGGAATTTTGGCCCCGGGGGGCTTAAAAAAA
 AAATGGCCGGCCCCCCTCCAAAAAACCTAATTAAGGGGGGCTAAAAAGTTTGAA
 AAAACGGCCT

Restriction Sites:

NotI-NotI

ACCN:

AK094781

Insert Size:

3300 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [AK094781.1](#), [BAG52929.1](#)

RefSeq Size: 3026 bp

RefSeq ORF: 735 bp

Locus ID: 1153

Cytogenetics: 19p13.3

Gene Summary: Cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. Acts as a translational activator. Seems to play an essential role in cold-induced suppression of cell proliferation. Binds specifically to the 3'-untranslated regions (3' UTRs) of stress-responsive transcripts RPA2 and TXN. Acts as a translational repressor (By similarity). Promotes assembly of stress granules (SGs), when overexpressed.[UniProtKB/Swiss-Prot Function]