

Product datasheet for **SC328823**

CP2c (TFCP2) (NM_001173452) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CP2c (TFCP2) (NM_001173452) Human Untagged Clone
Tag:	Tag Free
Symbol:	CP2c
Synonyms:	LBP1C; LSF; LSF1D; SEF; TFCP2C
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001173452 edited
 GAGAGAGCGAGACCTGGGAGGGAGGGTCTCCAGCAGAAAGGGGCGGGGAAAAGGTGC
 AAAAGCAGCGTGGGAGCGCCGGGCTGGCTTCTGCGGCTGCTGCTGGTCTGACTGGGAAG
 CAGCAAGCCACCTACGAACTCTAAGAGGAGTGGGAGTGCGGGAGTCCAGAGCTGCCT
 CTGGGAAGTCTGCAGTAGTTGAGCAAAGGGTCTCACGTTCTGAGAGCTGGGCAGGGG
 GGATTTTGAACCTGGGCAGCCAAGAACGAGCAGCCAAGGTACGGGAGATTAGTTGTG
 CACAGAGCAGTGTAGTCGGGCTTGGGGTGGCTGGTGGGCACTGCCTGGGAAACCTTGG
 TTTGTAGTTTTCTTGGTTTGCCTTACTCCTGTTGGGTAGAATTACCCTCCGCGCCTTTGT
 ACAAGACACGGTGTCTCCTGGGGCAAGGAAGGAGCCAGGATGGCCTGGGCTCTGAAGCTG
 CCTCTGGCCGACGAAGTATTGAATCCGGGTTGGTGCAGGACTTTGATGCTAGCCTGTCC
 GGGATCGCCAGGAAGTGGTGTGGTGCCTATAGCATGAGTGTGCTTGCATTGCC
 ATTTTTAAGCAAGAAGAGTCGAGTTTGCCTCTGATAATGAGAATAAAATCCTGCCTTTT
 CAATATGTCTTTGTGCTGCTACCTCTCCAGCAGTGAACTCCATGATGAAACCTAACG
 TATCTCAATCAAGGACAGTCTTATGAAATTCGAATGCTAGACAATAGGAACTTGGAGAA
 CTTCCAGAAATTAATGGCAAATTTGGTGAAGAGTATATTCCGTGTGGTGTCCATGACAGA
 AGGCTTACGTACACTGAGCATCAGCAGCTAGAGGGCTGGAGGTGGAACCGACCTGGAGAC
 AGAATTCTTGACATAGATATCCCGATGTCTGTGGGTATAATCGATCCTAGGGCTAATCCA
 ACTCAACTAAATACAGTGGAGTTCTGTGGGACCTGCAAAGAGGACATCTGTGTTTATT
 CAGGTGCACTGTATTAGCACAGAGTTCACTATGAGGAAACATGGTGGAGAAAAGGGGGTG
 CCATTCGAGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATACTAGCAGCAC
 TTACACTCGGCCAGCTGCCAGATCAAAGTTTTCAAGCCAAAGGTGCAGACAGAAAGCAA
 AAAACGGATAGGGAAAAAATGGAGAAACGAACCTCATGAAAAGGAGAAATATCAGCCT
 TCCTATGAGACAACCATACTCACAGAGTGTTCCTCATGGCCCGAGATCAGGTATGTCAAT
 AACTCCCCATCACCTGGCTTCAACAGTTCATAGCAGTTTTTCTTGGGGAAGGAAAT
 GGTTCACCAAACACCAGCCAGGCCACCCCTCCAGTCACAGATAACCTCTTACCAACA
 ACCACACCTCAGGAAGCTCAGCAGTGGTTCATCGAAATCGTTTTTCTACATTCACAAGG
 CTTTTACAAACTTCTCAGGGGAGATTTATTGAAATTAAGTAGAGATGATGTGATCCAA
 ATCTGTGGCCCTGCAGATGGAATCAGACTTTTTAATGCATTAAGGCGCGGATGGTGCCT
 CCAAGGTTAACCATTTATGTTTGTGAGGAATCACTGCAGTTGAGGGAGCAGCAACAACAG
 CAGCAGCAACAGCAGCAGAAGCATGAGGATGGAGACTCAATGGTACTTTCTTCTGTTTAC
 CATGCTATCTATCTAGAAGAACTAACAGCTGTTGAATTGACAGAAAAAATTGCTCAGCTT
 TTCAGCATTTCCCTTGGCAGATCAGCCAGATTTACAAGCAGGGGCAACAGGAATTCAT
 GTGCTCATCAGTGTGATGATACAGAACTTTAGGAAGAAGCATGTTTTATTCTGGAC
 ACAATGAAAGAAACCAATGATAGCTATCATATACTGAAGTAGGAGTGCGGGCTTTTCG
 TGCCAGTGGCTGCTCCTTCCCTCACCTCTGAAAACGGCCCTCTTGAAGGGGGATATGAA
 TGGAGATTTGAAGGTCTGCAAGAACCTGACTCGTCTGACTGTGTGGAGGAGTCCAGGC
 CATGGAGGCAGAAATCCTGGCCCTCTGTGTTGGCCCAAGCTCTTGTGGTACACACAGATTA
 CTGCCCCAATATGCAGTTCTGCAGCTGTTTTAGTTAAATTTCTGGACCTTGTGTTGTTAA
 ATATCAGTAGAACTCTACATAATTTAGAGTGTATGTAGGCATAATGATGATGGGAATT
 GTGTGATGTTTAAACAGGAAGATCTTAAATTTTGTGATATGGAGCCCTGTAAATTTTTCT
 TATATAAAATGGGTATCTATATTCATAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001173452
Insert Size: 2400 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001173452.1](#), [NP_001166923.1](#)

RefSeq Size: 3712 bp

RefSeq ORF: 1506 bp

Locus ID: 7024

UniProt ID: [Q12800](#)

Cytogenetics: 12q13.12-q13.13

Protein Families: Transcription Factors

Gene Summary:

This gene encodes a transcription factor that binds the alpha-globin promoter and activates transcription of the alpha-globin gene. The encoded protein regulates erythroid gene expression, plays a role in the transcriptional switch of globin gene promoters, and it activates many other cellular and viral gene promoters. The gene product interacts with certain inflammatory response factors, and polymorphisms of this gene may be involved in the pathogenesis of Alzheimer's disease. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.