

Product datasheet for **SC114633**

ZBTB20 (NM_015642) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB20 (NM_015642) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB20
Synonyms:	DPZF; HOF; ODA-8S; PRIMS; ZNF288
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015642, the custom clone sequence may differ by one or more nucleotides

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ATGACCGAGCGCATTACAGCATCAACCTTCAAACTTCAGCAATCCGTGCTCGAGACCCTCAACGAGC
AGCGCAACCGTGGCCACTTCTGTGACGTAAACGGTGCGCATCCACGGGAGCATGCTGCGCGCACACCGCTG
CGTGCTGGCAGCCGGCAGCCCCCTTCCAGGACAAACTGCTGCTGGCTACAGCGACATCGAGATCCCG
TCGGTGGTGTGAGTGCAGTCAAGTCAAAAAGCTCATTGACTTCATGTACAGCGGCGTGTACGGGTCTCGC
AGTCGGAAGCTCTGCAGATCCTCACGGCCGCCAGCATCCTGCAGATCAAAAACAGTCATCGACGAGTGCAC
GCGCATCGTGTACAGAACGTGGGCGATGTGTTCCCGGGGATCCAGGACTCGGGCCAGGACACGCCGCGG
GGCACTCCCGAGTCAGGCACGTAGGCCAGAGCAGCGACACGGAGTGGGGTACCTGCAGAGCCACCCAC
AGCACAGCGTGGACAGGATCTACTCGGCACTCTACGCGTGTCCATGCAGAATGGCAGCGGCGAGCGCTC
TTTTTACAGCGGCGCAGTGGTACGCCACCAGAGACTGCGCTCGGCTGCCCGCGACCACCACATGGAA
GACCCAGCTGGATCACACGCATCCATGAGCGCTCGCAGCAGATGGAGCGCTACCTGTCCACCACCCCG
AGACCACGCACTGCCGAAGCAGCCCCGGCCTGTGCGCATCCAGACCCTAGTGGGCAACATCCACATCAA
GCAGGAGATGGAGGACGATTACGACTACTACGGGACAGAAAGGGTGCAGATCCTGGAACGCAACGAATCC
GAGGAGTGCACGGAAGACACAGACCAGGCCGAGGGCACCAGAGTGGAGCCAAAAGGTGAAAGCTTCGACT
CGGGCGTCAGCTCCTCCATAGGCACCGAGCCTGACTCGGTGGAGCAGCAGTTTGGGCTGGGGCGGCGCG
GGACAGCCAGGCTGAACCCACCCAAACCCGAGCAGGCTGCAGAAGCCCCGCTGAGGGTGGTCCGAGACA
AACCAGCTAGAAACAGGTGCTTCTCTCCGGAGAGAAGCAATGAAGTGGAGATGGACAGCACTGTTATCA
CTGTGACGAACAGCTCCGACAAGAGCGTCTACAACAGCCTTCGGTCAACACGTCATCGGGCAGCCATT
GCCAAGTACCCAGCTCTACTTACGCCAGACAGAAACCCCTACCAGCAACCTGAGGATGCCTCTGACCTTG
ACCAGCAACACGCAAGTCAATTGGCACAGCTGGCAACACCTACCTGCCAGCCCTCTTCACTACCCAGCCCG
CGGGCAGTGGCCCAAGCCTTTCCTCTTACGCCTGCCACAGCCCTGGCAGGCCACAGACCCAGTTTGT
GACAGTGTCCAGCCGGTCTGTGACCTTTACTGCACAGCTGCCAGCGCCACAGCCCTGGCCTCATCC
GCAGGCCACAGCAGCCAGTGGGAAGGGCAAAAAAGCCTTATGAGTGCATCTCTGCAACAAGACTT
TCACCGCCAAACAGAACTACGTCAAGCACATGTTCTGTACACAGGTGAGAAGCCCCACCAATGCAGCAT
CTGTTGGCGCTCCTTCTCCTTAAAGGATTACCTTATCAAGCACATGGTGACACACACAGGAGTGAGGGCA
TACCAGTGTAGTATCTGCAACAAGCGCTTACCCAGAAGAGCTCCCTCAACGTGCACATGCGCTCCACC
GGGAGAGAAGTCTACGAGTGTACATCTGCAAAAAGAAGTTCTCTACAAGACCCTCTGGAGCGACA
CGTGGCCCTGCACAGTGCAGCAATGGGACCCCCCTGCAGGCACACCCCAAGTGGCCGCGCTGGCCCC
CCAGGCGTGGTGGCTGCACGGAGGGGACCACTTACGTCTGCTCCGTCTGCCAGCAAAGTTTGACCAAA
TCGAGCAGTTCAACGACCACATGAGGATGCATGTGTCTGACGGATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015642 unedited

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TTTGAATACGACTCACTATAGGGCGGCGCAATTCGGCAGGACAGACTGCCTGA
AGTTACATTTAGAGACTGAAATCACTGCNACCTTAAAAACAAAAGATTGAGCTGCACTGT
ATTCTTGAAAGCACCTACCAAGGCTTCTATTACCTATTTACAGCATAAGCCTACAGG
GTACGAAGAATGAACTCTGAGAATGTTTGGAGAATGTTTCATCATTACTAACAGGATATT
CCTCATGACATTGCTGTCTGATCTTTGACCATCAGTCTGTGACCTGCCCTTCTCTTTAC
ATGCAGCCGCTCTCTGCTCCCTGCCCAATGAACATCTGCACTAGGCCCAAGCCTTGGAG
TAATTTACCTGAAGAGTGACACCATTGATTTTGAAGTACTGAAGAAACCAAGACAGCT
GAAAACCCAGAAGGCATCTGAGGAGAATGAGATTACTCAGCCGGTGGATCCAGCGCCAAG
CCGGGCCCTTCCCTGCCTGAACCTTTGAAGTGTGTTTGTCTCCAGACCCAGCCCTCATCCAC
TCAACACATTCAGTACAACTCTCACGCTCACACCGGGTCACTGATTGTGACATCAGT
TGCAAGGGGATGACCGAGCGCATTACAGCATCAACCTTCAAACTTCAGCAATTCGGTGT
CTCGAGACCCTCAACGAGCAGCGCAACCGTGGCCACTTCTGTGACGTAACGGTGGCGCATN
CACGGGAGCATGCTGCGCGCACACCGCTGCGTGTGGCAGCCGGCAGCCCTTTCTTTCAG
NACANACTGCTGCTTGGCTACAGCGACATCGAGAATCCGTCCGGTGTGTGAGTGCAGTCA
GTGCAAAAAGCTCATTGACTCATGTACAGGCGCGTGTACGGNTCTCGCAGTCGGAAGCTC
TGCAAAATCTTACGGGCG
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015642 unedited CTTGGACGCGCCGCATTCTAGGATCGAGTTTTTTTTTTTTTTTTTTTACTTTTTTTTAA AAATTTTTTGTAAAGAAGGTTGTATTTAGAGGCCAGTAGCTAGAGATCCAACCAAGTGG ACCTCTTGAAGCACTACCAGGCCTTAAGGCCACCATCCGAGGGGAGACTGGGAAAATATT ATTCACCAAGCCTCCGAAATGTAATGTACCAGCAGGCAAAAAACAGTTCTTCATGTAG TACAAAATGAAACGAAACAAAAACAAAAACAGAAAGTAAAAATGAAACCAAAACATTTCT TAAATTTAGTGCCATAGCTTTTTTGTGTTGTTTTGTTGTTGTTGTTGTTGTTGTTGTTG ATAAGAAAGAGAGAAAGATACTACTTATCCGTCAGACACATGCATCCTCATGTGGTCGTT GAACTGCTCGATTTGGTCAAACTTTCTGGGCAGACGGAGCAGACGTAAGTGGTCCCCTC CGTGCAGGCCACCACGCCTGGGGGGCCAGCGCGGGCACCTGGGGGTGTGCCTGCAGGGGG GGTCCCATTGCTGGCACTGTGCAGGGCCACGTGTCGCTCCAGGAGGGTCTTGTGAGAGAA CTTCTTTTGCAGATGTACCACTCGTAGGACTTCTCTCCCGGTGGAGGCGCATGTGCAC GTTGAGGGAGCTTTCTGGGTGAAGCGCTTGTGCAGATACTACACTGGGATGCCCTCAC TCCTGGGTGTGCACCATGTGCTTGATAGAGGAATCCTTTAAAGAGGAAGACCGCCAACAG AGCCTGATCCGTGGGGCTCCCCACCGGTGCGTACAAACATGTGCTTGACTAATCTCTGT CTGGCGCGGAACCCCTGTTCCCAAAAGCGCACCCAAGCTTTTTCCCTTCTTTCCACCG TTGGCCCTGGTCTGGGACAAGCCCGGCTCGTTCCTGTCCTCCCCATCAGTTCCACCCCGT TCCCCACTCCCCATTCGGTGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_015642
Insert Size:	3480 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:	<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:	<u>NM_015642.2</u> , <u>NP_056457.2</u>
RefSeq Size:	2976 bp
RefSeq ORF:	2007 bp
Locus ID:	26137
UniProt ID:	<u>Q9HC78</u>
Cytogenetics:	3q13.31
Domains:	BTB, zf-C2H2

Protein Families: Transcription Factors

Gene Summary: This gene, which was initially designated as dendritic cell-derived BTB/POZ zinc finger (DPZF), belongs to a family of transcription factors with an N-terminal BTB/POZ domain and a C-terminal DNA-binding zinc finger domain. The BTB/POZ domain is a hydrophobic region of approximately 120 aa which mediates association with other BTB/POZ domain-containing proteins. This gene acts as a transcriptional repressor and plays a role in many processes including neurogenesis, glucose homeostasis, and postnatal growth. Mutations in this gene have been associated with Primrose syndrome as well as the 3q13.31 microdeletion syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2017]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus 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.