

Product datasheet for **SC116350**

Plzf (ZBTB16) (NM_006006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plzf (ZBTB16) (NM_006006) Human Untagged Clone
Tag:	Tag Free
Symbol:	Plzf
Synonyms:	PLZF; ZNF145
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116350 sequence for NM_006006 edited (data generated by NextGen Sequencing)

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ATGGATCTGACAAAAATGGGCATGATCCAGCTGCAGAACCCTAGCCACCCACGGGGCTA
CTGTGCAAGGCCAACCAGATGCGGCTGGCCGGGACTTTGTGCGATGTGGTCATCATGGTG
GACAGCCAGGAGTTCCACGCCACCAGGACGGTCTGGCCTGCACCAGCAAGATGTTTGAG
ATCCTCTTCCACCGCAATAGTCAACACTATACTTTGGACTTCTCTCGCCAAAGACCTTC
CAGCAGATTCTGGAGTATGCATATACAGCCACGCTGCAAGCCAAGGCGGAGGACCTGGAT
GACCTGCTGTATGCGGCCGAGATCCTGGAGATCGAGTACCTGGAGGAACAGTGCCTGAAG
ATGCTGGAGACCATCCAGGCCTCAGACGACAATGACACGGAGGCCACCATGGCCGATGGC
GGGGCCGAGGAAGAAGAGGACCGCAAGGCTCGGTACCTCAAGAACATCTTCATCTCGAAG
CATTCCAGCGAGGAGAGTGGGTATGCCAGTGTGGCTGGACAGAGCCTCCCTGGGCCCATG
GTGGACCAGAGCCCTCAGTCTCCACTTCATTTGGTCTTTAGCCATGAGTCCCACCAAG
GCTGCAGTGGACAGTTTATGACCATAGGACAGTCTCTCCTGCAGGAACTCTTCAGCCA
CCTGCAGGGCCCAGGAGCCAACCTGGCTGGGGTGGGCGGCACCTGGGGTGGCTGAG
GTGAAGACGGAGATGATGCAAGTGGATGAGGTGCCAGCCAGGACAGCCCTGGGGCAGCC
GAGTCCAGCATCTCAGGAGGGATGGGGGACAAGTTGAGGAAAGAGGCAAGAGGGGCT
GGGACCCCGACTCGAAGCAGCGTCATCACCAGTCTAGGGAGCTACACTATGGGCGAGAG
GAGAGTGCCGAGCAGGTGCCACCCACAGCTGAGGCTGGCCAGGCCCCACTGGCCGACCT
GAGCACCAGCACCCCGCTGAGAAGCATCTGGGCATCTACTCCGTGTTGCCAAACCAC
AAGGCTGACGCTGATTGAGCATGCCGTCTTCCGTGACCTCTGGCCTCCACGTGCAGCCT
GCCCTGGCTGTCTCCATGGACTTCAGCACCTATGGGGGCTGTGCCCAAGGGCTTCATC
CAGAGGGAGCTGTTCCAGCAAGCTGGGGGAGCTGGCTGTGGCATGAAGTCAGAGAGCCGG
ACCATCGGAGAGCAGTGCAGCGTGTGTGGGTCGAGCTTCTGATAACGAGGCTGTGGAG
CAGCACAGGAAGCTGCACAGTGGGATGAAGACGTACGGGTGCGAGCTCTGCGGGAAGCGG
TTCCTGGATAGTTTTCGGCTGAGAATGCACTTACTGGCTCATTACGCGGGTGCCAAAGCC
TTTGTCTGTGATCAGTGCAGTGCACAGTTTTTCGAAGGAGGATGCCCTGGAGACACACAGG
CAGACCCATACTGGCACTGACATGGCCGTCTTCTGTCTGCTGTGTGGGAAGCGCTTCCAG
GCGCAGAGCGCACTGCAGCAGCACATGGAGGTCCACGCGGGCGTGCGCAGCTACATCTGC
AGTGAGTGCAACCGCACCTTCCCAGCCACACGGCTCTCAAACGCCACCTGCGCTCACAT
ACAGGCGACCACCCTACGAGTGTGAGTTCTGTGGCAGCTGCTTCCGGGATGAGAGCACA
CTCAAGAGCCACAACGCATCCACACGGGTGAGAAACCCTACGAGTGCAATGGCTGTGGC
AAGAAGTTCAGCCTCAAGCATCAGCTGGAGACGCACTATAGGGTGCACACAGGTGAGAAG
CCCTTTGAGTGTAAAGCTGTGCCACCAGCGCTCCCGGGACTACTCGGCCATGATCAAGCAC
CTGAGAACGCACAACGGCGCCTCGCCCTACCAGTGCACCATCTGCACAGAGTACTGCCCC
AGCCTCTCCTCCATGCAGAAGCACATGAAGGGCCACAAGCCCAGGAGATCCCGCCCGAC
TGGAGGATAGAGAAGACGTACCTTACCTGTGCTATGTGTGA

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Clone variation with respect to NM_006006.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006006 unedited
 TTCCCCGCCCGTTGGCGCAAAGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAAGCAG
 AGCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAAT
 TCGGCACGAGGGGCGATGAGAGCGGGTACTGCGAACTGCCGGGCGATGCTGTGCTGCCG
 CCGTGATACGGAGAGCAACAGTTCACAGCAACACCCCTCCCCGACACAGGCACACACCC
 CCCGACAGGCACGCACACCCACCCACAGTGCACGGCTCGGCTGCGCCTCCTCTATTGGC
 CCAGGAAGCCCACCCAGCCCCGCCAGCAGAGCCAGAAGGAAAGAAAGCCTCATGCCTG
 AGCCGAGGGGAGCACCATGGATCTGACAAAAATGGGCATGATCCAGCTGCAGAACCCTAG
 CCACCCACGCGGCTACTGTGCAAGGCCAACAGATGCGGCTGGCCGGGACTTTGTGCGA
 TGTGGTATCATGGTGGACAGCCAGGAGTTCACGCCCACCGGACGGTGTGGCCTGCAC
 CAGCAAGATGTTTGTAGATCCTTCCACCGCAATAGTCAACACTATACTTTGGACTTCT
 CTCGCCAAAGACCTTCCAGCAGATTCTGGAGTATGCATATACAGCCACGCTGCAAGCCAA
 GGGCGGAGACCTGGATGACCTGTGTATGCGGCCGAGATCCTGGAGATCGAGTACCTGGN
 AGAACAGTGCCTGAAGATGCTGGAGACCATNNCAGCCTCAGACGATCATGACACGGGAGC
 CACCATGGCCGATGGCGNGCCGAGAATGATAAGACCCGAGGGCTCGTACCTCAGAAAC
 ATCTCATCTCGAACCATTCANCGAGGANAGTGGGTATGCCAGTGTGGCTGGACAGGAGCC
 TCTGGGCCAATGGTAGGACCAGAGCCCTTAGTCTCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006006 unedited
 ATTTACTAGTCCCTTCTCTCACTCCACTCTTCTTTCTGGCTCCCCGCTCGGCTCCAC
 CGCCGCGGGCGCTCCCTTACACATAGCACAGGTAGAGGTACGTCTTCTATATCCTCCAG
 TCGGGCGGGATCTCCTCGGGCTTGTGGCCCTTCATGTGCTTCTGCATGGAGGAGAGGCTG
 GGGCAGTACTCTGTGCAGATGGTCACTGGTAGGGCGAGGCGCCGTTGTGCGTTCCTCAGG
 TGGCGGAGCATGGCCGAGTAGTCCCGGAGCGCTGGTGGCAGAGCTTAACTCAAAGGGC
 TTCTCACCTGTGTGCACCTATAGTGCCTCCTCAGCTGATGCTTGAGGCTGAACTTCTTG
 CCACAGCCATTGCACTCGTAGGGTTTCTCACCCGTGTGGATGCGTTTGTGGCTCTTGAGT
 GTGCTCTCATCCCGGAAGCAGCTGCCACAACTCACACTTCTAGGGTGGTGCCTGTGTA
 TGTGAGCGCACCTGGCGCCTGAGAGCCTTGCTGCTTGTGAACGGGCAGTTCCCTCACAC
 CAAATGTTCTCCCCACACCCCTGCGCTTCTTCTCCCCCCCCAACGCCCCCGGCC
 CCCCAGCCTCTTTGTCTTCTGTTCTCACCTCACACCCCTCCCGCCCTCTTACATATCCTCT
 CCTCTACTCCCCCCCCACCCCTCCCCCTCCACCAACCCGTATTCTCCACAATCTTTACCC
 ACATCCCCGACCGCCAACTATAACTTAAATGCCCATCTTACGCCCCATCCCCCTCCA
 CCCCCCCCCCCCCCACTCCTCGTTCGACGACTTAGCCTTTCTGTTGTACCTATCA
 TAACTCCCCACCCCTCCCTCCATACCCCCCCTTCCCTCCCCCCCCAATCCCTCTCC
 GACTGTAATTTGCATCCTCTACTGGTGGCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_006006

Insert Size:

2550 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](#)

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_006006.4, NP_005997.2](#)

RefSeq Size: 2417 bp

RefSeq ORF: 2022 bp

Locus ID: 7704

UniProt ID: [Q05516](#)

Cytogenetics: 11q23.2

Domains: BTB, zf-C2H2

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Pathways in cancer

Gene Summary: This gene is a member of the Krueppel C2H2-type zinc-finger protein family and encodes a zinc finger transcription factor that contains nine Kruppel-type zinc finger domains at the carboxyl terminus. This protein is located in the nucleus, is involved in cell cycle progression, and interacts with a histone deacetylase. Specific instances of aberrant gene rearrangement at this locus have been associated with acute promyelocytic leukemia (APL). Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]
 Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein.