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Product datasheet for RC228567

ZBTB20 (NM_001164342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB20 (NM_001164342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZBTB20
Synonyms:	DPZF; HOF; ODA-8S; PRIMS; ZNF288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228567 representing NM_001164342
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTAGAACGGAAGAAACCCAAGACAGCTGAAAACCAGAAGGCATCTGAGGAGAATGAGATTACTCAGC
CGGGTGGATCCAGCGCCAAGCCGGGCCTTCCCTGCCTGAACTTTGAAGCTGTTTTGTCTCCAGACCCAGC
CCTCATCCACTCAACACATTCACTGACAAACTCTCACGCTCACACCGGGTCATCTGATTGTGACATCAGT
TGCAAGGGGATGACCGAGCGCATTCACAGCATCAACCTTCACAACTTCAGCAATTCCGTGCTCGAGACCC
TCAACGAGCAGCGCAACCGTGGCCACTTCTGTGACGTAACGGTGCGCATCCACGGGAGCATGCTGCGCGC
ACACCGCTGCGTGCTGGCAGCCGGCAGCCCCTTCTTCCAGGACAAACTGCTGCTTGGCTACAGCGACATC
GAGATCCCGTCGGTGGTGTCAGTGCAGTCAGTGCAAAAGCTCATTGACTTCATGTACAGCGGCGTGCTAC
GGGTCTCGCAGTCGGAAGCTCTGCAGATCCTCACGGCCGCCAGCATCCTGCAGATCAAAACAGTCATCGA
CGAGTGCACGCGCATCGTGTCACAGAACGTGGGCGATGTGTTCCCGGGGATCCAGGACTCGGGCCAGGAC
ACGCCGCGGGGCACTCCCGAGTCAGGCACGTCAGGCCAGAGCAGCGACACGGAGTCGGGCTACCTGCAGA
GCCACCCACAGCACAGCGTGGACAGGATCTACTCGGCACTCTACGCGTGCTCCATGCAGAATGGCAGCGG
CGAGCGCTCTTTTTACAGCGGCGCAGTGGTCAGCCACCACGAGACTGCGCTCGGCCTGCCCCGCGACCAC
CACATGGAAGACCCCAGCTGGATCACACGCATCCATGAGCGCTCGCAGCAGATGGAGCGCTACCTGTCCA
CCACCCCCGAGACCACGCACTGCCGCAAGCAGCCCCGGCCTGTGCGCATCCAGACCCTAGTGGGCAACAT
CCACATCAAGCAGGAGATGGAGGACGATTACGACTACTACGGGCAGCAAAGGGTGCAGATCCTGGAACGC
AACGAATCCGAGGAGTGCACGGAAGACACAGACCAGGCCGAGGGCACCGAGAGTGAGCCCAAAGGTGAAA
GCTTCGACTCGGGCGTCAGCTCCTCCATAGGCACCGAGCCTGACTCGGTGGAGCAGCAGTTTGGGCCTGG
GGCGGCGCGGGACAGCCAGGCTGAACCCACCCAACCCGAGCAGGCTGCAGAAGCCCCCGCTGAGGGTGGT
CCGCAGACAAACCAGCTAGAAACAGGTGCTTCCTCTCCGGAGAGAAGCAATGAAGTGGAGATGGACAGCA
CTGTTATCACTGTCAGCAACAGCTCCGACAAGAGCGTCCTACAACAGCCTTCGGTCAACACGTCCATCGG
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CTGACCTTGACCAGCAACACGCAGGTCATTGGCACAGCTGGCAACACCTACCTGCCAGCCCTCTTCACTA
CCCAGCCCGCGGGCAGTGGCCCCAAGCCTTTCCTCTTCAGCCTGCCACAGCCCCTGGCAGGCCAGCAGAC
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GCCTCATCCGCAGGCCACAGCACAGCCAGTGGGCAAGGCGAAAAAAAGCCTTATGAGTGCACTCTCTGCA
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GTGAGGGCATACCAGTGTAGTATCTGCAACAAGCGCTTCACCCAGAAGAGCTCCCTCAACGTGCACATGC
GCCTCCACCGGGGAGAGAAGTCCTACGAGTGCTACATCTGCAAAAAGAAGTTCTCTCACAAGACCCTCCT
GGAGCGACACGTGGCCCTGCACAGTGCCAGCAATGGGACCCCCCCTGCAGGCACACCCCCAGGTGCCCGC
GCTGGCCCCCCAGGCGTGGTGGCCTGCACGGAGGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGT
TTGACCAAATCGAGCAGTTCAACGACCACATGAGGATGCATGTGTCTGACGGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228567 representing NM_001164342
Red=Cloning site Green=Tags(s)

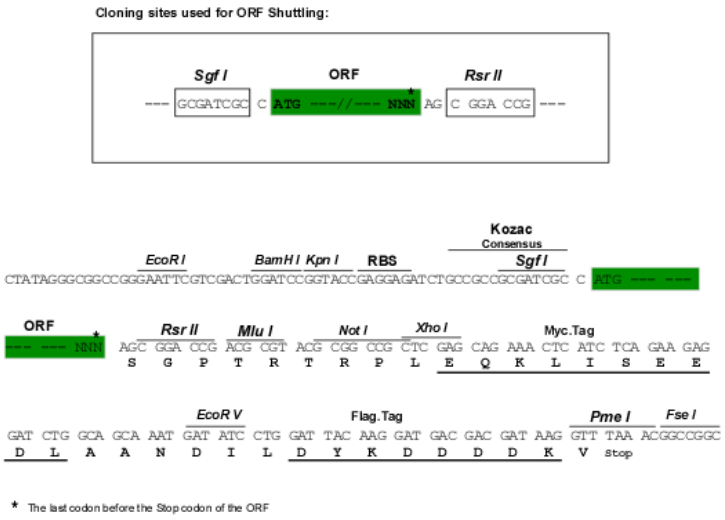
MLERKKPKTAENQKASEENEITQPGGSSAKPGLPCLNFEAVLSPDPALIHSTHSLTNSHAHTGSSDCDIS
CKGMTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMLRAHRCVLAAGSPFFQDKLLLGYSDI
EIPSVVSVQSVQKLIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPGIQDSGQD
TPRGTPESGTSGQSSDTESGYLQSHPQHSVDRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDH
HMEDPSWITRIHERSQQMERYLSTTPETTHCRKQPRPVRIQTLVGNIHIKQEMEDDYDYYGQQRVQILER
NESEECTEDTDQAEGTESEPKGESFDSGVSSSIGTEPDSVEQQFGPGAARDSQAEPTQPEQAAEAPAEGG
PQTNQLETGASSPERSNEVEMDSTVITVSNSSDKSVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMP
LTLTSNTQVIGTAGNTYLPALFTTQPAGSGPKPFLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPL
ASSAGHSTASGQGEKKPYECTLCNKTFTAKQNYVKHMFVHTGEKPHQCSICWRSFSLKDYLIKHMVTHTG
VRAYQCSICNKRFTQKSSLNVHMRLHRGEKSYECYICKKKFSHKTLLERHVALHSASNGTPPAGTPPGAR
AGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2404_e12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



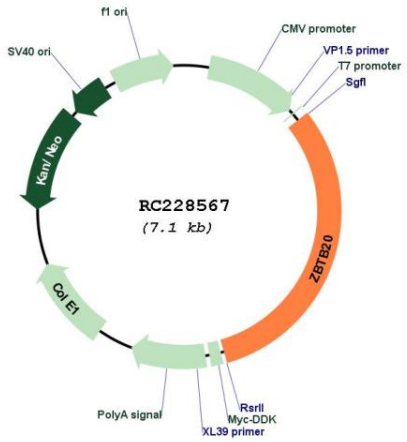
ACCN: NM_001164342

ORF Size: 2223 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 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_001164342.2
RefSeq Size:	26911 bp
RefSeq ORF:	2226 bp
Locus ID:	26137
UniProt ID:	Q9HC78
Cytogenetics:	3q13.31
Protein Families:	Transcription Factors
MW:	81.5 kDa

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-bindng 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]

Product images:



Circular map for RC228567