

Product datasheet for **MR210403**

Zbtb20 (NM_181058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb20 (NM_181058) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbtb20
Synonyms:	1300017A20Rik; 7330412A13Rik; A930017C21Rik; D16Wsu73e; DPZF; HOF; ODA-8S; Oda8; Zfp288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210403 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTAGAACGGAAGAAACCCAAGACAGCTGAAAACAGAAAGGCATCTGAGGAGAATGAGATTACTCAGC
 CGGGCGGATCCAGCGCCAAGCCGGCCCTCCCTGCCTGAACTTTGAAGCTGTTTTGTCTCCAGCCCAGC
 CCTCATCCACTCGACACATTCAGTACAAACTCTCACGCTCACACCGGGTTCATCTGATTGTGACATCAGT
 TGCAAGGGGATGACCGAGCGCATTACAGCATCAACCTTCACAACCTTCAGCAATTCGGTGTGAGACCC
 TCAACGAGCAGCGCAACCGTGGCCACTTCTGTGACGTGACGGTTCGCATCCACGGGAGCATGCTGCGCGC
 ACATCGTGTGCTGGCAGCCGGCAGCCCTTCTTCCAAGACAAGCTGTGCTGGGCTACAGCGACATC
 GAAATCCCGTCCGGTGTCCGTACAATCGGTGCAAAAGCTCATTGACTTCATGTACAGCGGTGTGCTGA
 GAGTCTCACAGTCGGAAGCTCTGCAGATCCTCACAGCCGCCAGCATCCTGCAGATCAAAACAGTCATAGA
 TGAGTGCCTCGCATCGTGTACAGAACGTGGGCGATGTGTTCCAGGCATCCAGGATTCGGCCAGGAC
 ACACCAAGAGGCACACCAGAGTCAGGCACATCTGGCCAGAGCAGTGACACGGAATCAGGCTACCTGCAGA
 GCCACCCACAGCATAGTGTGGACCGAATCTACTCCGCACTCTACGCCCTGCCTCATGCAGAATGGCAGCGG
 CGAGCGCTCCTTCTACAGTGGTGCAGTGGTCAGCCACCACGAAACAGCTCTCGGCCCTGCCCGTGACCAC
 CACATGGAAGACCCTAGCTGGATCACACGCATTATGAGCGCTCCAGCAAAATGGAGCGCTACCTGTCCA
 CCACCCCTGAGACCACGCACTGCCGGAAGCAGCCCGGCCCTGTGCGTATCCAGACCCTGGTGGGTAAACAT
 CCACATCAAGCAGGAAATGGAAGATGACTATGACTACTATGGGCAGCAAAGGGTGCAGATCCTAGAACGC
 AATGAATCCGAGGAGTGACACAGAAGACTGACCAAGCAGAGGGCACTGAGAGCGAGCCAAAGGTGAAA
 GCTTTGATTCTGGGGTCAGCTCCTCCATCGGCACCGAACCTGACTCAGTGGAGCAACAGTTTGGGCGAGT
 AGCCCCAAGGGACGGTACGGCAGAACCCGCCAACCTGAGCAGGCAGCAGAAGCCCCAGCTGAGAGCAGT
 GCCCAGCCAAACCAGCTAGAACCAGGTGCCTCCTCCTGAGAGAAGCAACGAGTCAGAGATGGACAACA
 CAGTCATCACTGTGAGTAACAGCTCCGATAAGGGCGTCTACAGCAGCCTTCAGTCAACACATCCATCGG
 GCAGCCATTGCCAAGTACCCAGCTCTATTTACGCCAGACAGAAACCCTCACAGCAACCTGAGGATGCCT
 CTGACCTTGACCAGCAACACACAGGTATTGGCACCGCTGGCAACACCTATCTGCCAGCCCTTTCACTA
 CCCAACCCGCGGGCAGTGGCCCCAAGCCTTTTCTTTTCTTTCAGCCTGCCGAGCCCTGACAGGCCAGCAGC
 CCAGTTTGTGACAGTGTCCAGCCGGTCTGTCCACCTTACTGCACAGCTGCCAGCGCCACAGCCCTG
 GCCTCATCTGCAGGCCACAGCACAGCCAGTGGGCAAGGGCAGAAAAAGCCTTATGAGTGCCTCTCTGCA
 ACAAGACTTTCACAGCCAAACAGAACTACGTCAAGCACATGTTCCGTACATACAGGTGAGAAGCCCCACCA
 GTGCAGCATCTGCTGGCGCTCCTTCTCCTTGAAGGATTACCTTATCAAGCACATGGTGACGCACACCCGGC
 GTGAGAGCGTACCAGTGTAGCATCTGCAACAAGCGCTTCAACCAGAAAGATTCCCTCAACGTGCACATGC
 GCCTGCACCGCGGGGAGAAGTCTATGAGTGTACATCTGCAAAAAGAAGTTCTCCACAAAGACCCTGCT
 GGAGCGACAGTGGCCCTGCACAGTGCACAGCAACGGGACCCCTCCGGCAGGCACGCCCCCAGGTGCCCGC
 GCGGGTCCGCCAGGCGTGGTGGCTGCACAGAGGGGACCCTTACGTCTGCTCCGTCTGCCAGCAAAGT
 TTGACCAAATCGAGCAGTTCACGACCACATGAGGATGCATGTGTCTGACGGA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210403 protein sequence
 Red=Cloning site Green=Tags(s)

MLERKKPKTAENQKASEENEITQPGSSAKPALPCLNFEAVLSPAPALIHSTHSLTNSHAHTGSSDCDIS
 CKGMTERIHSINLHNFNSVLETLNEQRNRGHFCDVTVRIHGSMMLRAHRCVLAAGSPFFQDKLLGYSDI
 EIPSNVSVQSVQKLIIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPGIQDSGQD
 TPRGTPESGTSQGSSDTESGYLQSHPHQSVDRISALYACSMQNGSGERSFYSGAVVSHHETALGLPRDH
 HMEDPSWITRIHERSQMERYLSTTPETTHCRKQPRPVRIQTLVGNIIHIKQEMEDDYDYYGQQRVQILER
 NESEECTEDTDQAEGETESEPKGESFDSGVSSSIGTEPDSVEQQFGAAAPRDGQAEPAPQEQAEEAPAESS
 AQPQLEPGASSPERSNESEMDNTVITVNSSSDKGVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMP
 LTLTSNTQVIGTAGNTYLPALFTTQPAGSGPKPFLFLPQLTGQQTQFVTVSQPLSTFTAQLPAPQPL
 ASSAGHSTASGQGDKKPYECTLCNKFTTAKQNYVKHMFVHTGEKPHQCSICWRSFSLKDYLKHMVHTHTG
 VRAYQCSICNKRFTQKSSLNVHMRLHRGEKSYECYICKKKFSHKTLLEHRHVALHSASNGTTPAGTTPGAR
 AGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181058

ORF Size: 2226 bp

OTI Disclaimer: 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_181058.1](#), [NP_851401.1](#)

RefSeq Size: 2934 bp

RefSeq ORF: 2007 bp

Locus ID: 56490

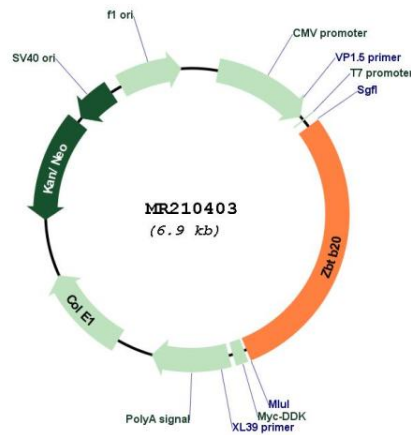
UniProt ID: [Q8K0L9](#)

Cytogenetics: 16 28.44 cM

MW: 81 kDa

Gene Summary: May be a transcription factor that may be involved in hematopoiesis, oncogenesis, and immune responses (By similarity). Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (PubMed:27446912).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210403