

Product datasheet for **RN207423**

Zbtb38 (NM_001012471) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb38 (NM_001012471) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Zbtb38
Synonyms:	RGD1310136
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207423 representing NM_001012471 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGTCATGTCCCTCTCCAGGGACCTCAAGGACGACTTTCACAGTGACACGGTGTCTCCATCCTAA
ATGAGCAGCGCATTGGGGCATCTTATGTGATGTCACCATCATTGTGGAGGACACCAAGTTAAAGCCCA
CAGCAATGTCCTGGCCGCTCAAGCCTTATTTCAAAAACATCTTTGGAGCCATACGATCTGTATTTC
AGTCATGTCCTAGAGCTGGATGATCTGAAAGCCGAAGTGTACAGAGATTCTTAATTACATCTACAGCT
CCACCGTGGTGGTCAGGAGACAGGAAACCGTCACTGACCTTGCAGCTGCAGGGAAAAGGCTGGGAATATC
ATTCTTAGAGGACCTTAGTGACCACAATTCTCAAATCCCCAGGTCCTACGTAGTTTGCATCACTGAA
AAGGGCGTGGTTAAAGAAGAAAAAATGAAAAAGGCACGAAGAGCCAGCTGTCACTAATGGGCCAGGA
TCACAAACGCATTTCCATCATTGAGACGGAAAAATAGCAATAGCATGTTTTCTCCCTGGACTTGAGGGC
AAGCTTCAAAAAGTGTGAGATGCCATGAGAACCCTAGCCTTGGCCAGGAGAGGCCAGTGTCTGCCCC
GAGGCAGAGCCTGTCCGCACGCTTGCCGAACACTCATATGCCGTTTTCCATCACTGAGGCCTACAGGA
GTCAGCCTCTGAGGGAACATGACAGCAGCAGTTCATCTGGTAAAACGGGAAAAGAAAATGGCGAAGCTCT
CACCACAAAAGCAAAGCCATGCCGAAAGCCAAAGACCCAAACCCAGGATTCTGACTCAACCACAGAGAAC
ATGCCACTCCCTAGTAACCTGCCAGAGGTGAATCAAGAAAGAACCCACAGCCAGCTCCAATTTCTGT
CACACTCAGAACCTCCCAGCAGTGAAGGAGATGTCCATTTCCAGAGAAGATGAAAACCCAGCCCTCTGA
GACTCCTGGTCCCCAGCAGCAGAGGTCCCGCCCTCGTTTTATAATTGTAGCTGTGCTCCAATCCTTC
GACAGCAGCACACTGCTCGGGGCCACATGCAGCTGCACAAGCCGACGCAGGACCCCTTTGTGTGCAAGT
ACTGCAACAAGCAGTTCACCACCCTCAACAGGCTGGACCCGCACGAGCAGATCTGCATGAGGTCGAGCCA
CATGCCATGCCAGGAGGAAACCAACCTTCTTAGAAAACACCCACCATTGGACAAGATGGAGGTTCA
TTCACAAGCCAGATTATTGGTGCCAGAAAGTAGGATTGGTGAACATCCAGCGCTGGGAGTGCCTTGT
CAGACGGGACCACATGGTGAATTTGTGAATGGGCAGATGCTTACAGCTGCGTTGTGTGCAAACGTAG
CTATGTGACTTTGTCCAGCCTCCGGAGGCACGCAATGTCCACTCGTGGAGAAGAAGTACCCCTTGCAT



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TACTGCAACAAGGTCTTCGCACTGGCTGAGTACAGGACACGCATGAGATCTGGCACACTGGAGAGAGGC
 GGTACCACTGCATTTTCTGTCTTGAAACGTTTATGACCTACTACATACTGAAAAACCATCAGAAGTCTTT
 TCATGCCATAGATCACAGACTCTCCATCAGTAAAAAACAGCAAATGGAGGCTTGAAGCCCACCGTCTAC
 CCATACAACTTTACAGGCTCTTGCCATGAGATGCAAGCGGGCACCTTATAAGAGCTACCGGAATCTT
 CCTATGAAAGTGCTCAAGGAAACCGTCAAAGGAATGAATCCCCACCTGACACCTTCGTATTCCGAATCT
 GCCAAGCTCTGAAATGCCACACTGAACCTCCAAGATGGCAGAACTCGTTGACCAGCAGCCCTGCCATC
 CCAGTGGAAACACCTTTCATGGCAGGGTACACCCACTTCTGCCAAAGTAAAAATGCAGAAGGCCTCAAAT
 GGAGGAAGCAGGCACTGAAAACCGATCTCGTTCGATTTCGGCTGAGGTGTCGATTTCTCCATTGGAAACTC
 TGTGAGCACCACCTGCAGGCAGAGCCCGTGTGTGTTTCGAGTGGGGAGCACTCGGCCTCCGTGATCAGC
 TACAGCGGCTTGGTGCCTCTGTATTGTGCACAGCAGCCAGTTCTCGTCGGTGATCAAGCACAGCAATG
 CCATTGCCTGCCTGGCCAAACAGCAACCACAGTCCCTTTCACAGCCTGTGGCGAGTCCGTCCCTGATCAA
 GGATAGCAAGCCTGAGGCAGATAAAGCCAGTAACTCGCAAGCAGACCCAAAACTCTAAGGAGAAAAAG
 AAAACCGTTCCATGTAAACAGGGGAGAAATAACAGAGGAGGCAAAATATGTTGCTGATCTCGGAGGATCTT
 CGGGCAAAACCACAAATGTCGTGAAGAAACAGTAAGATTGAACTTATATAGCAAAACCCGCTCTGCC
 CGGCACCTCCACAAATAGCAATGTTGCACCCCTTTGCCAAATAACAGTGAATAATGGGAACGAAGCCATC
 GTGAAAAGGCATATCCTTGGGTCTAAGCTGTTTTACAAAAGAGGGAGAAAACCCAAGTATCAAATGCAGG
 AAGAGACATTGCCTCGGGAGAGTGACCCCGAAACCCGTGGAGACAGCCCTCTTGGGCTCTGCCAAGCTGA
 CTGTGTGGAGATGAGTGAAGCATTTGATGAAGTGAAGTACAGGACTCCACCGATAAGCCGTGGCGCCCA
 TACTACAACTACAAGCCCAAGAAGAAATCCAAACAGTTAAGAAAAATAAGGAAAGTCAAGTGGAGGAAGG
 AACGAGGGAGCAGAAGCCCGTGGGTGGCGCAGGTATCCAGCTGAGCTGGATCGCGCAGAGATGGGTGCG
 GCGCAGGTACCCAGCTGAACTAGATCGCTGCGCAGAGGTGAAATTGCCCCAGATAAGGCCTCTGAAGAA
 GAGGAGAATAAAGAGATGCCAAGCTGCAGTGCAGCTCTGTGACGGTGACAAAGCAGCAGGGGGCGGGAG
 CCGAAGGCAAGCCCAACAGCATCTCACTTGAAGCCTTACATCTGCGAGCTCTGTGCGAAGCAGTTCCA
 GAGTCTCTCCACGCTCAAGATGCACATGAGATGCCACACTGGCGAGAAGCCCTACCAGTGAAGACCTGT
 GGGCGGCGCTTCTCAGTGCAGGGCAACCTACAGAAGCACGAGCGCATTACCTGGGCGTGAAGGAGTTCA
 TCTGTGAGTATTGTAACAAGGCTTTACGCTGAACGAGACGCTCAAGATCCACGAAAGAATCCACACAGG
 GGAGAAGCGTTACCACTGTGAGTCTGCTTTAGGGTTTCTTATCTCTCCACAAAAAGGAACCACGAG
 CGGAGGCATGTCCGGGAGCATGACGGGAAAGGCTTTGCTTGTCTCCAGTGCACCAAAATATGCAAAACAG
 CTGCTGCCCTCAGAATGCACCAAAAGAAGCACTTATTCAAGACCTTGACTAAGCAAGAGGAAACAGATGA
 CCTTTGCCACGAAAACCTCGATCTCTTGGAGAGTCAACCTTGCACTGATTCGGAAGACAGCGACCAAAAG
 GATGACATAAAAAACCTTTGCTGAAAATGTCCTTTGAGTGA

ACGGGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001012471
- Insert Size:** 3612 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:

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_001012471.1](#), [NP_001012489.1](#)

RefSeq Size: 3901 bp

RefSeq ORF: 3612 bp

Locus ID: 315936

UniProt ID: [Q5EXX3](#)

Cytogenetics: 8q31

Gene Summary: Transcriptional regulator with bimodal DNA-binding specificity. Binds with a higher affinity to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' but can also bind to E-box elements (5'-CACGTG-3'). Can also bind specifically to a single methyl-CpG pair. Represses transcription in a methyl-CpG-dependent manner. Plays an important role in regulating DNA-replication and common fragile sites (CFS) stability in a RBBP6- and MCM10-dependent manner; represses expression of MCM10 which plays an important role in DNA-replication (By similarity). Acts as a transcriptional activator. May be involved in the differentiation and/or survival of late postmitotic neurons (PubMed:15713629).[UniProtKB/Swiss-Prot Function]