

Product datasheet for **RR207423**

Zbtb38 (NM_001012471) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zbtb38 (NM_001012471) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Zbtb38
Synonyms: RGD1310136
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207423 representing NM_001012471
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGCC**

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GGTACCAGTGCATTTTCTGTCTTGAAACGTTTATGACCTACTACATACTGAAAAACCATCAGAAGTCTTT
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Protein Sequence: >RR207423 representing NM_001012471
 Red=Cloning site Green=Tags(s)

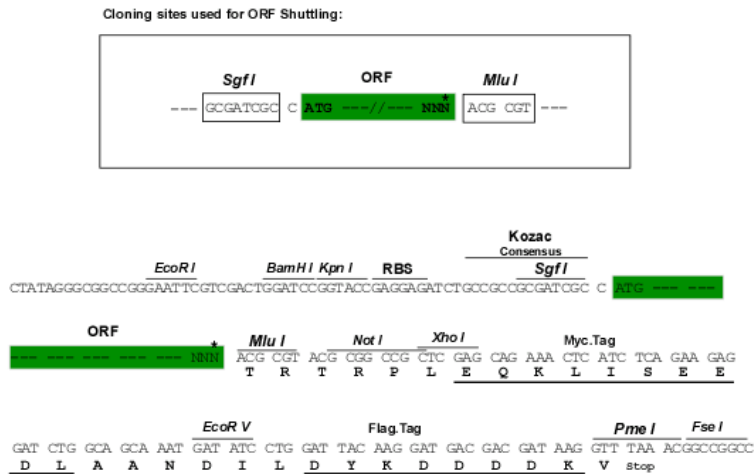
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 GRRFSVQGNLQKHERIHLGVKEFICQYCNKAFTLNETLKIHERIHTGEKRYHCQFCFGFLYLSTKRNHE
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Restriction Sites:

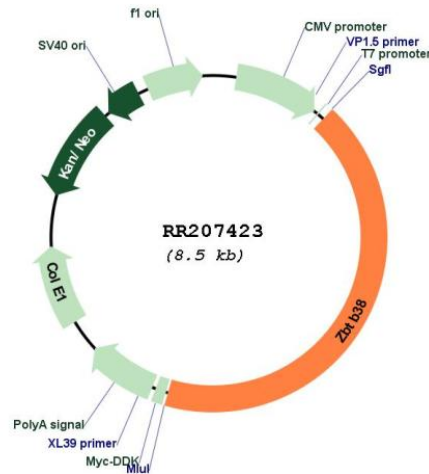
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012471

ORF Size: 3609 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_001012471.1](#), [NP_001012489.1](#)

RefSeq Size: 3901 bp

RefSeq ORF: 3612 bp

Locus ID: 315936

UniProt ID: [Q5EXX3](#)

Cytogenetics: 8q31

MW: 135.3 kDa

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]