

## Product datasheet for **RC213741**

### **ZBTB38 (NM\_001080412) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | ZBTB38 (NM_001080412) Human Tagged ORF Clone                                   |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | ZBTB38                                                                         |
| Synonyms:                 | CIBZ; PPP1R171; ZNF921                                                         |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >RC213741 representing NM_001080412<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGACAGTCATGTCCCTTTCCAGGGACCTCAAGGACGACTTTCACAGTGACACGGTACTCTCCATCTTAA  
ATGAGCAGCGCATTTCGGGCATTTTATGCGATGTCACTATCATTGTGGAAGATACCAAATTTAAAGCCCA  
TAGCAATGTTCTGGCAGCTTCAAGCCTGTATTTAAAAATATCTTTGGAGCCATACAATCTGTATTTC  
AGCCACGTCCTGGAGCTGGACGATCTCAAAGCTGAAGTGTACTGAAATACTTAATTATATCTACAGTT  
CCACAGTCGTTGTCAAGAGACAGGAAACAGTCACTGATCTCGCAGCTGCAGGAAAAAGCTGGGAATATC  
GTTCTTGAAGACCTTACTGATCGCAACTTCTCAAATCCCCGGGTCCCTATGTATTCTGTATTACTGAA  
AAGGGAGTGTTAAAGAAGAAAAAATGAAAAAGGCATGAAGAACCAGCCATCACTAATGGGCCAAGGA  
TCACAAATGCATTTCCATCATCGAAACAGAAAAATAGTAATAACATGTTTTCCCCGCTGGACTTGAGGGC  
AAGTTTCAAAAAGGTCTCCGACTCCATGAGAACAGCTAGCCTTTGCCTGGAGAGGACGGACGTCTGCCAC  
GAGGCAGAGCCTGTCCGCACACTTGCCGAGCACTCATACGCTGTTTCTCCGTAGCTGAAGCTTACAGAA  
GTCAGCCTGTACGTGAACATGATGGCAGTTCACCTGGTAACACAGGGAAGAAAAATTGTGAAGCCCTTGC  
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TCACTCGTTCAAAATCTCAAAACAATGAAGGAGATGTCCATTTTCCAGGGAAGATGAAAAATCAATCTTTC  
TGATGTTCCCGGGCCGCCAGCCGAGAGGTTCCACCTCTGGTGTACAATTGTAGCTGCTGTTCCAAAGCC  
TTTGACAGCAGCACTCTGCTCAGTGCCACATGCAGCTTCACAAGCCAACCCAGGAGCCTTTAGTGTGCA  
AGTATTGCAACAAACAATTCACCACCTGAACAGGTTGGATCGGCATGAACAGATCTGCATGAGGTCAAG  
CCACATGCCCATTCCTGGAGGAAACCAACGCTTTTATAGAAACTATCCTACCATTGGACAAAATGGAGGT  
TCATTCACAGGTCCAGAACCTTTATTATCTGAAAATAGGATTGGTGAATTTCCAGTACCGGAAGTACTT  
TGCCAGACACGGACCACATGGTTAAATTTGTTAATGGGCAATGCTCTACAGTTGCGTTGTGTGCAACGC  
TAGTTATGTGACCTTATCTAGCCTCCGAAGACATGCAAAATGTTCACTCCTGGAGAAGAACATATCCTTGC



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CATTACTGCAACAAAGTATTTGCATTGGCTGAGTACAGGACAAGGCATGAAATTTGGCATACGGGAGAAA  
 GACGATATCAGTGCATTTTCTGTCTTGAACCTTTCATGACCTACTATATACTCAAAAATCATCAGAAGTC  
 TTTCCATGCCATCGATCATAGACTTTCCATCAGTAAAAAACAGCAAAATGGAGGCTTGAAGCCTAGTGTC  
 TATCCGTATAAACTTTATAGGCTACTGCCTATGAAATGCAAGAGAGCCCTTATAAGAGCTACCGAAATT  
 CTTCTATGAAAAATGCACGAGAAAACAGTCAAAATGAATGAGTCTGCACCTGGTACCTATGTTGTTTCAGAA  
 TCCACACAGCTCTGAATTACCAACGCTGAATTTCCAAGATACTGTAAACACCTTGACCAACAGTCCAGCC  
 ATCCCATTGGAACATCTGCATGTCAGGACATACCCACTTCTGCCAATGTACAAAATGCAGAGGGTACCA  
 AATGGGGAGAGGAGGCATTGAAAAATGGATCTTGACAATAACTTTTATTCAACTGAGGTGTCAGTTTCTTC  
 CACTGAAAATGCTGTCAGTTCTGACCTCCGGGCAGGGGATGTACCTGTTTATCTTTGAGTAATAGCAGT  
 GAGAATGCCGCTCTGTGATCAGCTACAGTGGCTCTGCACCTCGGTATTGTACACAGCAGCCAGTTT  
 CATCGGTGATCATGCACAGCAATGCCATTGCTGCCATGACCAGCAGCAACCACAGAGCCTTTTCAGACCC  
 AGCTGTCAGTCAGTCCCTGAAAGATGACAGTAAGCCCGAGCCAGATAAAGTGGGTAGGTTTGCAAGCAGA  
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 ATGTTGCTGATCCTGGAGGATCACTGAGCAAAACCACAAATATTGCTGAAGAAACCAGCAAAATTGAAAC  
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 GTGAAAATTGGAACGAAGCCATTGTGAAAAGGCACATTCTAGGATCTAAATTGTTTATAAAAGAGGGA  
 GAAGACCAAGTATCAGATGCAGGAGGAGCCTTTGCCACAGGGGAATGACCCAGAACCCAGTGGAGACAG  
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 TCCACTGACAAACCGTGGCGCCCTTACTACAACATAAAACCCAAAAAGAAATCCAGACAGTTGAAAAAA  
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 AAGCTGCAGTGTGAACCTGTGATGGAGACAAAGCAGTGGGGCTGGAACCAAGGAAGGCCCCACCGAC  
 ATCTTACTTCTCGGCCATATGCCTGCGAGCTCTGCGCAAGCAGTTCAGAGCCCTTCCACACTCAAAAT  
 GCACATGAGATGTCACACCGGGGAGAAGCCATACCAAGTGAAGACCTGCGGACGGTGCTTTTCGGTGCAA  
 GGAAACTTACAGAAACATGAACGCATCCACCTGGGCTTGAAGGAGTTCGTCTGTCAGTATTGCAACAAGG  
 CATTACCTTGAATGAGACCTCAAAATCCATGAAAGAATCCATACTGGAGAAAAGCGTTACCACTGTCA  
 GTTCTGCTTTCAGAGATTTTGTATCTCTCCACAAAAGGAATCACGAGCAGAGGCATATTCGGGAGCAT  
 AATGGGAAGGGCTATGCCTGCTTCCAGTGCCCCAAAATTTGCAAAACAGCTGCTGCCCTTGAATGCACC  
 AAAAGAAACACTTATTCAAAAGCCCAAGTCAGCAGGAGAAAATAGGTGACGTGTGCCACGAAAACTCAA  
 TCCCTTGAGAATCAACATTTTCATTGGTTCAGAAGACAATGACCAAAAGGATAACATACAAACCGGTGTG  
 GAAAATGTTGTCCTT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213741 representing NM\_001080412  
 Red=Cloning site Green=Tags(s)

MTVMSLSRDLKDDFHSDTVLSILNEQIRIGILCDVTIIVEDTKFKAHSNLAASSLYFKNIFWSHTICIS  
 SHVLEDDLKAEVFTEILNYIYSSTVVVKRQETVTDLAAGKKLGISFLEDLTDNRNFSNSPGYPVFCITE  
 KGVVKEEKNEKRHEEPITNGPRITNAFSIIETENSNMFSPLDLRASFKKVSMSRTASLCLERTDVCH  
 EAEPVRTLAHSYAVSSVAEAYRSQPVREHDGSSPGNTGKENCEALAAKPKTCRKPKTFSIPQSDSATE  
 NIPPPPVSNLEVNQERSQPAAVLTRKSPNNEGVDVHFSREDENQSSDVGPPAAEVPPLVYNCSCCSKA  
 FDSSTLLSAHMLHKTQEPLVCKYCNKQFTTLNRLDRHEQICMRSSHMPIPGGNQRFLENYPTIGQNGG  
 SFTGPEPLLSENRIGEFSSTGSTLPDTHMVKFVNGQMLYSCVVKRSYVTLSSLRHANVHSWRRTYPC  
 HYCNKVFALAEYRTRHEIWHGTERRYQCIFCLETFTYIILKNHQKSFHAIDHRLSISKKTANGGLKPSV  
 YPYKLYRLLPMKCKRAPYKSYRNSSYENARENSQMNESAPGTYYVQNPSSSELPTLNFQDVTNTLNSPA  
 IPLETSACQDIPTSANVQNAEGTKWGEEALKMDLDNNFYSTEVSSTENAVSSDLRAGDVPVLSLSNSS  
 ENAASVISYSGSAPSIVIHSSQFSSVIMHSNAIAAMTSSNHRAFSDPAVSQSLKDDSKPEPDKVGRFASR  
 PKSIKEKKKTTSHTRGEIPEESNYVADPGGSLSKTTNIAEETSKIETYIAKPALPGTSTNSNVAPLCQIT  
 VKIGNEAIVKRHLGSKLFYKGRRPKYQMEEPLPQGNDEPSPGDSPLGLCQSECMEMSEVFDDASDQD  
 STDKPWRPYNYKPKKSRQLKKMRKVNWRKEHGNRSPSHKCKYPAELDCAVGKAPQDKPFEEEEKEMP  
 KLQCELCDGDKAVGAGNQGRPHRLTSRPYACELCAKQFQSPSTLKMHRCHTGEKPYQCKTCGRCFSVQ  
 GNLQKHERIHLGLKEFVCQYCNKAFTLNETLKIHERIHTGEKRYHCQFCFQRFVLSSTRNHEQRHIREH  
 NGKGYACFCQPKICKTAAALGMHQKKHLFKSPSQQEKIGDVCHENSNNPLENHFIQSEDNDQKDNITQTV  
 ENVVL

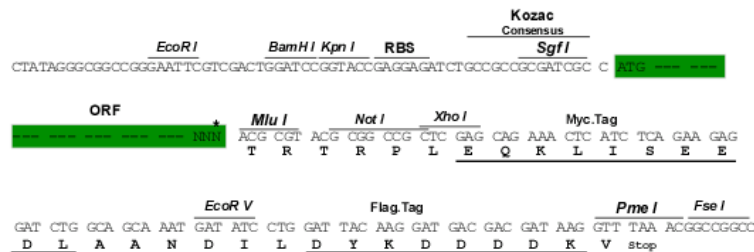
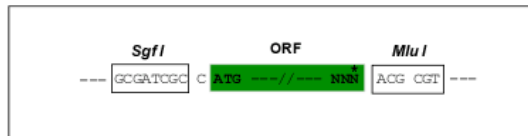
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

**Cloning Scheme:**

SgfI-MluI

Cloning sites used for ORF Shuttling:



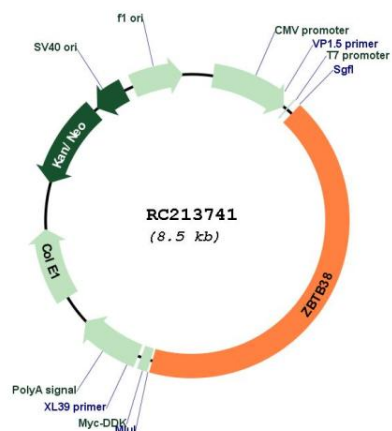
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001080412

**ORF Size:** 3585 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_001080412.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 8398 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 3588 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 253461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <a href="#">Q8NAP3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 3q23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MW:</b>                    | 134.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>          | The protein encoded by this gene is a zinc finger transcriptional activator that binds methylated DNA. The encoded protein can form homodimers or heterodimers through the zinc finger domains. In mouse, inhibition of this protein has been associated with apoptosis in some cell types. [provided by RefSeq, Jun 2010]                                                                                                                                                                                              |

## Product images:



Circular map for RC213741