

## Product datasheet for **RR214680**

### Zbtb3 (NM\_001109162) Rat Tagged ORF Clone

#### Product data:

|                    |                                           |
|--------------------|-------------------------------------------|
| Product Type:      | Expression Plasmids                       |
| Product Name:      | Zbtb3 (NM_001109162) Rat Tagged ORF Clone |
| Tag:               | Myc-DDK                                   |
| Symbol:            | Zbtb3                                     |
| Synonyms:          | RGD1561140                                |
| Vector:            | pCMV6-Entry (PS100001)                    |
| E. coli Selection: | Kanamycin (25 ug/mL)                      |
| Cell Selection:    | Neomycin                                  |



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**ORF Nucleotide Sequence:**

>RR214680 representing NM\_001109162  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTTC**CCAGA**ACAGTCAGCAGCTGCTT**CAGAGC**TCGCGGAGCAACGGTCCAGGGTTTCCTTT  
 GTGATTGCACTGTGATGGTTGGTAGTATCCAGTCTTAGCCCATAGAGCTGTGCTGGCCTCTGCAGCCC  
 ATTCTTT**CAGCTTTT**CTACAAGGAACGGGAATTGGACAAGAGGGATCTGGTGTGTATT**CACAAT**GAGATT  
 GTCACCGCCCCAGCCTTTGGGTTGCTTTTGGACTTTATGTATGCTGGCCAGCTGGCCCTTAGGGGAGATA  
 CTCCTCTAGAAGATGTGCTGGCAGCTGCCAGCTACTTGCACATGAATGACATTGTTAAGGTTTGAAGCA  
 ACGCTTGAAGCAGCAGCTCTGGCAGAGGCAGACAGTACCAAGAAAGAAGAGGAAACCAATCCTGCTAGT  
 TTGGAGTTTTTGTGGGCAGTTCTCGAGGCCACAGCCTTACTGGCATCTGTTGAACCATCAGTCCGCT  
 GGAGCAAAGGAATGGAAGGTCAGCCACTCCCTTACCCATTGCTCATCTGCAGATGGGCCACCAGT  
 GTCTGGTGGGGCTGACACTACACAACCAAGCATGGAAGTTGACTCATCACATCTTCGGGCACCTCCTCCA  
 CCAGTGGCTGACGTCTGTCTCTCTTGGCAGCCCCAGTAGCTCTACAGAGACCCTCCTGTAAACTATT  
 TCTCTTCTGGCCTTCCAACAGTTT**CAGTGGAG**CCCTTGACTCCTCTTGATGTGGTTCCTGAGAGTCTGAG  
 GGTGGTGAACCAAGGGATACTGGAGGACCATTGCAAGGCTTCTATCCCCAGCTCCAGCCCCACCCCT  
 GCGCCAGCCCCAGTCTGTCCCAGGCTACAGCCCCAGTTGAAGCTGAAGTGGTCCAGGTAAGTAGAAG  
 CTATTGTGATCTCTGATGAGGAGACTGACTTGT**CAGAGGA**ACAGCCTCAGGGATCTGAAGGACTGTTCCC  
 TTCTGGAGGAGCAATGTATGGGGACAGCCTT**CACAGGC**AGAGGCTTTT**GAGGAG**CCAGGGGCAACAGGA  
 CTAGAGGAGGTGGGGCAAGT**GACCACT**TCCTGCCTCCAGAACCTCATCTACCATATCATCTGCTGCCAG  
 GTCCAGGGCAGTATCATCGAGGGCTGGT**GACCT**ACCCCTGCCTGCACCGCCAGCCCTGCATGAACCACT  
 CTACCCTCCTTCTGAGTATGAAGCAGCCCAAGGGAGCTTTGGGAGCTTTACAGAGGATGTTCCACCTGT  
 AAGACATGTGGAAAGACTTTCTCATGTTCTTATACACTACGGCGACATGCCACAGTACACACACGTGAGC  
 GCCCTATGAGTGTGCTATTGCCTACGAAGTTACACACAGT**CAGGGG**ACCTCTACCGCCACATCCGCAA  
 GGCTCACAATGAGGACCTGGCCAAACGCAGCAAAC**CAGACCC**AGAGGCTAGCACCATTTTAGGGGTGCAG  
 CCCCTCTGCTGCCAAACAACAGAGAGACATAGTGGTGGTGGAGGTCCACCCAAAGATTTTGTACTTG  
 GTC**CCAAAAAT**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214680 representing NM\_001109162  
 Red=Cloning site Green=Tags(s)

MEFPEHSQQLLQSLREQRSQGFCDCTVMVGSIQFLAHRVAVLASCSPFFQLFYKERELDKRDLVCIHNEI  
 VTAPAFGLLLDFMYAGQLALRGDTPLEDLVLAASYLHMNDIVKVKQRLQARALAEADSTKKEEETNPAS  
 LEFLSGSSRGPQPLLASVEPSVRWSKEEWKGPATPLPIAHPADGPPVSGGADTTQPSMEVDSSHLRAPP  
 PVADVSVSLASPSSTETTPVNYFSSGLPTVSVVEPLTPLDVPESLRVVEPRDTGGPLQGFYPPAPAPP  
 APAPVLSQATAPVEAELVQVKVEAIVISDEETDLSEEQPGSEGLFPSGGAMYGGQPSQAEAFEEPGATG  
 LEEVGPSDFLPPPEHLPYHLLPGPGQYHRGLVTSPLPAPPALHEPLYPPSEYEAAGQSFSGFTEDVPTC  
 KTCGKTFSCSYTLRRHATVHTRERPYECRYCLRSYTSQSGDLYRHIRKAHNEDLAKRSKPDPEASTILGVQ  
 PLSGSQTERHSGGGPPKDFVLGPKN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

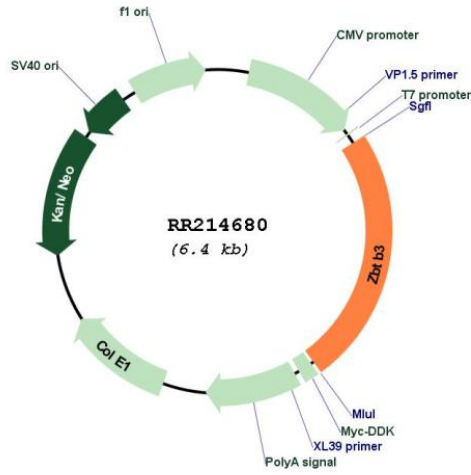
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_001109162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ORF Size:</b>              | 1551 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>RefSeq:</b>                | <a href="#">NM_001109162.2</a> , <a href="#">NP_001102632.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 2053 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 1554 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 499313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 1q43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>                    | 55.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |