

## Product datasheet for RR210428

### Bbox1 (NM\_022629) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bbox1 (NM_022629) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bbox1
Synonyms:	Bbh; Bbox
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210428 representing NM_022629 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCACGTGCCATCCTAAAGGCGGAAGCAGTGGATGGGCTCGCTTGATGCAGATCTTTGGCAGCATG  
GGCAGAGTCCCTACCCAGCAGTATGGCTCAGAGACAAGTGCAGTGTTCGGACTGCTATCTACATTC  
TGCAAAAGCTCGAAACTTCTCCTGGAAGCTCTCGATGTGAACATTAGAATGGATGACTTGACATTTGAC  
CAGAAAAAGGTTTATATCACTTGGCCAAATGGCCATTACAGCGAATTTGAAGCTAATTGGCTGAAGAAAA  
GATGCTTTTCTCAGGAGGCCAGAGCAGGACTCCAAGGAGAATTTTTACCAGAATGTCAGTACTGGGG  
CTCAGAGCTCCAGCTGCCAACTCTGAACCTTGAAGATGTGTTAAATGATGATGACCATGCATACAAATGG  
CTTTCTAGTCTCAAGAAAGTAGGCATTGTGAGACTCACTGGAGCAGCTGACAAACGTGGCGAGATCATAA  
AACTTGGGAAAAGAATTGGCTTTCTGTACCTCACATTTATGGACACACTGGCAAGTGCAGGACAAGAT  
TGATGCCAACAAATGTGGCTTATACAACTGGGAAGCTCAGCTTCCACACAGATTACCCAGCCCTCCACCAT  
CCACCTGGGGTTCAGCTTCTGCACTGTATCAAGCAAACAGTACAGGAGGTGACTCTGAAATCGTAGATG  
GGTTTAAATGTGTGCCAAAACCTCAAGGAGAAGAACCCCAAGGCTTTTTCTATTCTCTCCACCTTTGT  
GGATTTTACAGACATTGGAGTGGATTACTGTATTTCTGTGCACTCTAAACACAAGATTATAGAGCTG  
GATGATAAAGGCCAAGTGGTTCGCATCAACTTCAACAACGCAACCAAGAGATACAGTCTTCGATGTCCCA  
TTGAAAGAGTTCAGCCTTTCTACGCTGCTGTAAGGAGTTTGTGACCTGATGAACAGCAAGAATACAA  
GTACACCTTCAAGATGAATCCAGGTGATGTGATTACCTTTGACAAGTGGCGCTTGCTTATGGAGCTCGC  
AGCTATGAAGCAGGAAGTGAATATCCCGCCATCTGGAAGGCGCTTATGCTGACTGGGATGTAGTGTGT  
CAAGGCTTCGATTCTGAGACAGAGATCATGAATGGGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210428 representing NM\_022629  
 Red=Cloning site Green=Tags(s)

MHCAILKAEAVD GARLMQIFWHDGAESLYPAVWLRDNCQCSDCYLHSAKARKLLLEALDVNIRMDDLTFD  
 QKKVYITWPNGHYSEFEANWLKKRCFSQEARAGLQGEFLPEQCQYWGSELQLPTLNFEDVLNDDDHAYKW  
 LSSLKKGIVRLTGAADKRGEIIKLGKRIGFLYLTFYGHTWQVQDKIDANNVAYTTGKLSFHTDYPALHH  
 PPGVQLLHCIKQVTGGDSEIVDGFNVQCQLKEKNPQAFSILSSTFVDFTDIGVDYCDFSVQSKHKIIEI  
 DDKGQVVRINFNNATRDTVFDVPIERVQPFYAALKEFVDLMNSKEYKYTFKMNPGDVITFDNWRLLHGRR  
 SYEAGTEISRHLGAYADWDVVM SRLRILRQRVMNGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

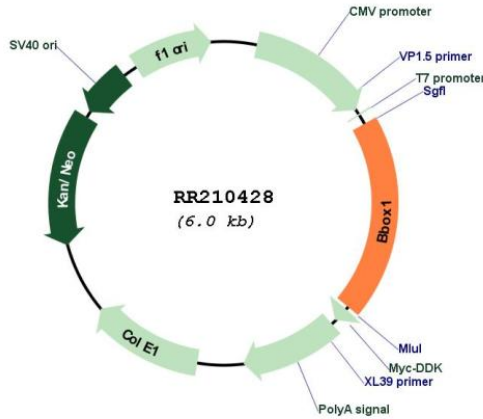
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_022629

<b>ORF Size:</b>	1161 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_022629.1</a> , <a href="#">NP_072151.1</a>
<b>RefSeq Size:</b>	1164 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	64564
<b>UniProt ID:</b>	<a href="#">Q9QZU7</a>
<b>Cytogenetics:</b>	3q34
<b>MW:</b>	44.5 kDa
<b>Gene Summary:</b>	Catalyzes the formation of L-carnitine from gamma-butyrobetaine.[UniProtKB/Swiss-Prot Function]