

## Product datasheet for **MC222608**

### **Bcas3 (NM\_001166642) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bcas3 (NM_001166642) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bcas3
Synonyms:	1500019F07Rik; 2610028P08Rik; AU021018; BC028339; K20D4; rudhira
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222608 representing NM\_001166642  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATGAAACAATGGCTACAGATTCTCCTCGGAGACCCAGTCGTTGACTGGCGGAGTCGTGGTCCGCC  
 CTCAGGCCGTCACGGAGCAGTCCTACATGGAGAGCGTCGTGACTTTTCTGCAGGATGTTGTGCCACAGGC  
 TTACAGTGGGTCTCCCCTAACAGAAAGAAAAGGAGAAGATAGTCTGGGTACAGATTTGAGAATGCAGATCTG  
 AACGACACATCACGGAATCTAGAATTTCACTGAAGTGCATAGCACTGGAAATGAGCCTCCTCTGCTGGTTA  
 TGATCGGCTACAGTGACGGAATGCAGGTCTGGGCATCCCTATCAGCGGGGAAGCCAGGAGCTCTTCTC  
 TGTACGACATGGTCCAGTCCGAGCAGCTAGAATCTTGCCTGCTCCACAGTTGGGTGCCAAAAGTGTGAT  
 AACTTTGCTGAGAAAAGACCTCTTCTTGGTGTGTTGAAGAGCATTGGATCTTCAGGCACGACACCACCGT  
 ACTGCTGTGTGGATCTGTATTCCTCCGACTGGGAAAATGGTCAAGTCCATTAGTTTAAACACCCAT  
 TTATGATCTTCACTGTAACAAGCGGATCCTCGTCGTAGTCTTGCAGGAGAAAATTGCTGCCTTTGATAGC  
 TGTAATTTACAAAAAATTTTTGTCACAAGTTGTTATCCTTGCCTGGGCCAAACATGAATCCCATTG  
 CTCTTGGGAGCCGCTGGCTTGTATGCAGAAAATAAGCTGATTTCGCTGTACCAGTCCCCTGGAGGAGC  
 CTGTGGAGACAACATTCAGTCTTACACTGCCACTGTCTTAGTGTGCTAAAACACTGAAAAGTGGCCTG  
 ACGATGGTTGGGAAAGTGGTGAAGTCAACTGACAGGCACACTGCCCTCAGGGGTGACAGAAGATGACGTTG  
 CCCTACACTGCAACTCAAGACGGAGCCCTTGGTTCAGGCATCATCACAGTATAGACACTGAGACGGT  
 TGGAGAGGGCCAGGTGCTTGAAGTGAAGTCCGACAGTATGGCATTGTGGCCACTTCCCTGCCAT  
 GAGAAGCCAGTATGCTGTATGGCTTTAATACTAGTGAATGCTTTTAGTCACAACAGACTCTTGGCC  
 ATGACTTTTCACTTCCAAATCCTGACTCATCCTTGGTCAATCACAGTGTGCTGTCCATGATGTA  
 CACACTTACAGGGGAGAGACCGAGGCCAAAGTTCAGGACATCTGTTTCAGCCATGATTGTGCTTGGGTG  
 GTGGTCACTACCTCCGGGTACGTCCACGTTTTCCCATCAATCCTTATGGTGGCCAGCCTTGTGTCC  
 GCACACACATGTACCACGAGTAGTCAATCGCATGAGCCGTTTCCAGAAAAGTGTGGGCTGGAAGAGAT  
 TGAACAAGAGCTGACATCTAAGCAAGGCGGCCGCTGTAGTCTGTTCAGGCCTGTCCAGCAGCCCTTCT  
 GGCTCCCCGCTGCATGGGAAAGTGAAGCAAGGCTTACAATAACTTTACAAACAACAACCTGGCA  
 ATCCCCGCTTTCTCCCCTCCCCAGCTTGTAGTGTGACGCTCTTGCGCAATCAAACAGCCAATGAC  
 ACTGGGAACCATCACGAAGCGAACAGGCAAAGTAAATCACCTCCACAAATTTCTCCAAGCAAATCAATG  
 GCGGTGAGTTTTGCGTGGCTGCAGTGTGGGACTTCCAGGTCGTGGTTGCAAACAACGCTGGTCTGA  
 AACGGGAAAAAGATCAGTCCAAACAAGTTGTAGTTGAATCTTTACATCATCAGCTGCTACGGGACCTT  
 AGTGGAGCACATGATTGAGCCCCGGCCGATCAGTACTGCTCCCAAGATAAGTGAAGACACACCCTGGAG  
 ATAATGACGTCACCCCGTCCAGCTGGACACTTGTAGAACGCCTCAGTGAATGAACTGCAGCCGCCAT  
 TCAATGCGAATCACCCCTGCTCCTCGTGCAGAACAGTGCAGTATTACCAGCTCCTGTGGCCGGCTC  
 TCTTCCCCTGGAAGTCTGGCCCCATTACTCGACATGGGTCTATGACAGCTTAGCCTCTGACCATAGT  
 GGACAGGAAGATGAAGAATGGCTTTCCAGGTTGAAATGTGACACACACCGGACCCACAGGCGCCTGT  
 GGATGGGCCACAATCCATTTCAAACCATCAAACCTCAGGCCAGACCAGGTCATATCAACTAGTTC  
 TTCTGTGTTACAATCGCACGGACCTAGCGACACACCACAGCCGCTTTGGACTTTGATACGGATGATCTA  
 GATCTTAACAGCCTCAGGATCCAGCCTGTCCGCTCTGACCCAGTCAGCATGCCAGGGTCATCCCCTGCTG  
 TCTCTGATCGGAGGGGAGTTTCCACAGTACCGATGCTGCCTCAGGTACCTTTGACCGGAGCGTGACCC  
 GCTGGAGGTGTGTGGGAGCTGGCCTGAGGGCTTCGGGCTGCGGCATATGTCTCCATGGAGCACTCAGAG  
 GAGGGCTCCGGGAACGGCTTGCAGATGCCATGGCCGAGTCAACAAGCCGAGACGTTGTGGGATCTGGAA  
 CAGAACTTCAGCGAGAGGGAAGCATCGAGACTCTGAGTAACAGCTCCGGCTCCACCAGCGGCAGCATCCC  
 AAGAACTTCGATGGCTACCGATCTCCGCTCCCTACCAACGAGAGCCAGCCGCTCAGCCTCTTCCCCT  
 GGCTTCCCCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001166642
<b>Insert Size:</b>	2742 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_001166642.1</a></u> , <u><a href="#">NP_001160114.1</a></u>
<b>RefSeq Size:</b>	3647 bp
<b>RefSeq ORF:</b>	2742 bp
<b>Locus ID:</b>	192197
<b>UniProt ID:</b>	<u><a href="#">Q8CCN5</a></u>
<b>Cytogenetics:</b>	11 C
<b>Gene Summary:</b>	<p>Functions synergistically with PELP1 as a transcriptional coactivator of estrogen receptor-responsive genes. Stimulates histone acetyltransferase activity. Binds to chromatin (By similarity). Plays a role in angiogenesis. Participates in the regulation of cell polarity and directional endothelial cell migration by mediating both the activation and recruitment of CDC42 and the reorganization of the actin cytoskeleton at the cell leading edge. Promotes filipodia formation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode the same isoform.</p>