

## Product datasheet for **MC204433**

### **Bsnd (NM\_080458) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bsnd (NM_080458) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bsnd
Synonyms:	MGC47291
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC038287  
 CCACGCGTCCGGGCAGGAAGAAAGTTAGATGGCTGGGACCTTGGGCCACTGAAGCGTGTACCTGCCCT  
 GCTGGGCTCAGGGCTGAGAGCTGGGCTGTGGAGTTTGTCTCTTGTCTGTGCATCATCACCTTGGTTCT  
 CAGCCATCTCCTGGAGCATCCTTCTTGGAGCCTGCTCAGCGTTTGGAGGATTGCGGGTAGTCCCCT  
 GCTGGTGTGTGATCAGCTAGCTACCAGGGCTGGTTAGCCACCATGGCTGATGAGAAGACCTTCCGAATC  
 GGCTTCATCGTGTGGGCTCTTCTGCTATCCCTGGGTACATTCTTATGAGCCACGATCGACCCAGG  
 TCTACGGCACCTTCTATGCCATGGGCAGCGTCACTGGTGTGCGGGGTGTCTGTGGAGCATGTGCCAATG  
 CTATCCTAAGATCACCTTTGTGCCAGCAGACTCTGACTTCCAAGGCATCTTGTCCCAAAGGCCCTGAGC  
 CTGCTGGAGACCGGCTTTCGGAGGTAAGAGCCCCAGCCCCCTACGTGAGGCTGTGGGAAGAAGCCG  
 CCTATGACCAGAGCCTCCAGACTTCACTCACATCCAAATGAAGGTCATGGGCTACAGTGAGGACCCAG  
 GCCACTGTGGCCCCGAGCTGAAGACAGGAGCCAGCAGTGTGAGGGAAGGCGAGCCTCGTACTGCTCAG  
 GCCTGGATGGAGGCTCCGGTGGTCCATAGAGGGTCAGATGAGAACGAGGGAGAGAAATCCCATTCTC  
 AGAGCAGCCCTTCACTGGGTCCCAAGGCTCTGCACCCTTGGCCTCATTCCATGACGACCTGGACGTGGG  
 CTCAGCGAAGGCAGCAGCTGCAACCATCCCCAACAGGGATGAGCCACACCGGCAGGTGCCCTGGGCC  
 AGCAGGGTCCACTGGATCGCTTCACTGACTTTGCTCTGATTGACGACACCCCTACATCTGAGGACACGG  
 TCCTGGACGGGCAGGCAGGGAGGACGCTACCCAGAAAAGCAGCAATGGTCCCTGAGGATGAAGGGGGA  
 GACTGTCCAGGCACGCGCAGAAGAACCAGGAGCAGGAGGAGGAAGATCTGTATTACGGGCTGCCAGACAGC  
 CCTGGGACCCCCCTACCCGACAAAGAGTTGGGCTTCGAGCCTGACATCCAGGGCTGAGATGAAAAGTCCCT  
 CCTGTGTCTAGCCTGACAGCACTGCTGTCTTATGTGACCCCTCAAGGGCTCAGTTTTCCAAGTCCCAAA  
 CAGGATTTGATGGAGGACCAAGTGAAGCAGTGAAGTGAAGCATCTTGGAACTGAAAGGAACACACATGG  
 GGGCAGCAATCTCCCCCTGCGAGCCACATGCGTCTGGTTGTAGCTTGTCTGCTGACCTGCAGGGAC  
 AGTGGGTTTTCTGAGGCTCTGTGTGACAGCCAGACCCCAAGCCCTTCTCCATCTCCTAATGCTAGC  
 TTCTGATTGGGCTCTGTGGTGTACCCAGGGCTCTGAGAACCCCATGTCCACTGTGTCTTTGGTCTC  
 TGATGAGTGTGGACTCACGCACCCCTCTCAGAGCCGATGCTGTCTCTGGCTCAGTGTCTTTAGCAGTT  
 TCTCTGCTCTGGGATCTATGACTCTCTGTGGTCACTTCTGCTGAGCTGAGCTGACCTCTGGATATTACT  
 CTAGTCCCTCTGTTTATGCCCTAGCCATGCCTATACCCTTGCTTGGCTGTGTTCTTCCAGGGCCCC  
 TTGTGCTGAGTGAACCTCCACCCATTCTATACCCACCAAAGTACCTTTCTCTGCTAGTTTTCTCTG  
 GCATCCCAACCCCTAGATGAGAATTTCCCTCTGGGGCTTGTGTGCCATTTCTCTGGCTGGTGTGCCA  
 CTGCCAGGGACAGCATCTTGAATTCATTACCAGAGTTCACAGGAGACCTTTGGCGTATGCAGATCTCA  
 GCAGATCTTGAACCTTTGCAGATAGGGTACCCTCCCCAGTTTTGACAAGTATGGACTCTTAGTCTCTG  
 GCACCCACTTTTTCAAAATGGCTTCTAGACAGTCATAAAAACCAGGCGAAAAGCTACCAGAAGAGAACCA  
 ACAACAACCTCACAAAGCACACTTGCATTGGTTTGGAAATGGACAAAATCCAGCTGTGAAGTAATCCACT  
 TGGTGGCCTTGGCACTTACTGAGCATCTGCTATGTGCCAGGCTCAGCTTGGAAAACAGTCATTGGTCCCT  
 GACCCTGTAAAGGGCTCATGGTCTGAGCTGGTGTCTTGTAAAGCTGGAAACACAGCATGGAAGGTGGATG  
 GGAGCAGAGTCACTCTCTGTCTGCAGGCTTGCAGAACCCTCTGTTCTCAGCCAGCATGGAAGGAGCC  
 ATAAGGAGAAAGGTGTTGCTGCTTTCTCCAGCCAGGCTACACAACCTTAGACCTGTTCTGAGATGTCTAA  
 GAGCAGGGCACTGGGAGAAGGTTAGGGGCTCAGCCGAGGGAAGGAGATGCCACCGGTGCTCACTGAGA  
 ACACACCACAACCCTCCCATGTCTGGGCAATTTCTACCTTTTCACTGAGGAGCCTCCACAGGCACT  
 CCTCTCTGCTGATAGGTCACAGACCAGGTGCCCTGCTCTGCTCAGCCAAGGGTGGAGGTGACATGTAG  
 CTGCTGTCTGTACTGCTGGCCAGGCAAGGACTGACTGTGACCCACATCAGACAGAGCAAAGTCAAGCA  
 CCAGGGATGAAATAAAAAAGTTTTTAACTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_080458  
**Insert Size:** 924 bp  
**OTI Disclaimer:** 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="#">BC038287</a></u> , <u><a href="#">AAH38287</a></u>
<b>RefSeq Size:</b>	2789 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	140475
<b>UniProt ID:</b>	<u><a href="#">Q8VIM4</a></u>
<b>Cytogenetics:</b>	4 C7
<b>Gene Summary:</b>	Functions as a beta-subunit for CLCNKA and CLCNKB chloride channels. In the kidney CLCNK/BSND heteromers mediate chloride reabsorption by facilitating its basolateral efflux. In the stria, CLCNK/BSND channels drive potassium secretion by recycling chloride for the basolateral SLC12A2 cotransporter.[UniProtKB/Swiss-Prot Function]