

Product datasheet for **MR204322**

Bsnd (NM_080458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bsnd (NM_080458) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bsnd
Synonyms:	MGC47291
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204322 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATGAGAAGACCTTCCGAATCGGCTTCATCGTGCTGGCCTCTTCCTGCTATCCCTGGGTACAT
TCCTTATGAGCCACGATCGACCCAGGTCTACGGCACCTTCTATGCCATGGGCAGCGTCATGGTGATCGG
GGGTGTCATCTGGAGCATGTGCCAATGCTATCCTAAGATCACCTTTGTGCCAGCAGACTCTGACTCCAA
GGCATCTTGTCCCAAAGGCCCTGAGCCTGCTGGAGACCGGGCTTCGGAGGTAAGAGCCCCAGCCCC
CCTACGTCAGGCTGTGGGAAGAAGCCGCTATGACCAGAGCCTCCAGACTTCACTCACATCCAAATGAA
GGTCATGGGCTACAGTGAGGACCCAGGCCACTGCTGGCCCCGAGCTGAAGACAGGAGCCAGCAGTGTC
AGGGAAGGCGAGCCTCGTACTGCTCAGGCTGGATGGAGGCTCCGGTGGTTCATAGAGGGTCAGATG
AGAACGAGGGAGAGAAATCCCATCTCAGAGCAGCCCTCAGTGGGTCCCAAGGCTCTGCACCCCTTGGC
CTCATTCCATGACGACCTGGACGTGGGCTCCAGCGAAGGCAGCAGCCTGCAACCATCCCCAACAGGGAT
GAGCCACACCGGCAGGTGCCCTGGGCCAGCAGGGTCCACTGGATCGCTTCACTGACTTTGCTCTGATTG
ACGACACCCCTACATCTGAGGACACGGTCTGGACGGGCAGGCACGGGAGGCAGCGCTACCCAGAAAAGCA
GCAATGGTCCCTGAGGATGAAGGGGAGACTGTCCAGGCACGCGAGAAGAACCAGGAGCAGGAGGAGGAA
GATCTGTATTACGGGCTGCCAGACAGCCCTGGGACCCCTACCCGACAAAGAGTTGGGCTTCGAGCCTG
ACATCCAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204322 protein sequence
Red=Cloning site Green=Tags(s)

MADEKTRIGFIVLGLFLLSLGTFLMSHDRPQVYGTFFYAMGSVMVIGGVIWSMCQCYPKITFVPADSDFO
 GILSPKALSLLLETGLSEVKSPQPPYVRLWEEAAYDQSLPDFTHIQMKVMGYSEDPRPLLAPLKTGASSV
 REGEPRTAQAWMEAPVVVHRGSDENEKEKSHSQSSPSVGPQGSAPLASFHDDLVDGSSEGSLSLQSPNDR
 EPHRQVPWASRGPLDRFSDFALIDDTPTSEDTVLDGQAREAALPRKQQWLSRMKGETVQARAEPEQEEE
 DLYYGLPDSGDPDLPKELGFEPDIQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080458

ORF Size: 924 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_080458.1](#), [NM_080458.2](#), [NP_536706.2](#)

RefSeq Size: 2716 bp

RefSeq ORF: 924 bp

Locus ID: 140475

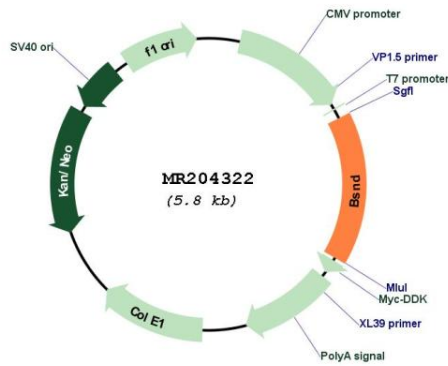
UniProt ID: [Q8VIM4](#)

Cytogenetics: 4 C7

MW: 33.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR204322