

Product datasheet for **SC315838**

BEND3 (NM_001080450) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BEND3
Synonyms:	KIAA1553
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC315838 representing NM_001080450.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACTCAACTGAATTCACCGAAGATGTAGAAGAAGTTCTAAAAAGTATCACTGTGAAAGTGAGACA
GAGGCTGAAGATGCTGCTCTGGACTGCTCCGTGAATCCAGGACTTCTGAGAAGCACTCTGTGGACAGC
GTCCTCACTGCCCTGCAGGACTCCAGCAAACGAAAGCAGCTGGTCAGCGATGGCCTGCTAGACTCTGTG
CCCGCGGTGAAGAGGAGGCGGCTGATCCCCGAGGCTCTCTAGCAGGCATGCGGAACCGTGAGAAGCAGC
TCGCCCTGCCAAGGCAATGGTGAGCAGGCCGCGAGGGGAGGAGCCTGGGCAATGTGTGGCCTGGAGAG
GAGGAGCCCTGCAACGATGCCACCAACCCCTTCTTACAAGAAGCCTCTGTATGGCATCTCGCAACAAGATC
ATGGAGAAGAAGAATCCTCCCTCGGGGAGCTGCTAAACGTGTACGAGCTCTTTGAGAAGGCAAAACGCC
AGCAACAGCCCTCGTCACTGCGGCTCTGAATGAGCCACAGAAGCGGGACTGTGGCAGCACCAGGGGCA
GGCACTGACAACGACCCCAACATCTACTTCTGATCCAGAAGATGTTCTACATGCTGAACACCCCTCAG
TCCAACATGTCCAGCTGCACAGCAAGGTGGACCTGCTCTCCCTTGAGGTGAGCCGCATCAAGAAGCAG
GTGAGGCCCCACTGAGATGGTGCCAAATCCAGCCGCCCTGAGTACCAGCTCACAGCCGAGAGCTC
AAGCAGATCGTGGACCAGAGCCTGTGAGGGGGGACCTGGCCTGCCGCTTGCTGGTGCAGCTCTTCCCC
GAGCTCTTACGCGACGTGGACTTCTCCCGGGCTGCAGTGCCTGTGGCTTTCGCGCAAGCGCAAGCTG
GAGTCGCTGCACCTGCAGCTCATCCCAACTATGTGGAGGTCTACTACCCCTCGGTGAAGGACACGGT
GTGTGGCAGGCCGAGTGCCTGCCCAAGCTGAACGACTTCTTACGCGCTTCTGGGCCAGCGGGAATG
GAGGACAGCCAGCCAGCGGCCAGGTGCGCAGCTTCTTTGAGGCAGAGCAGGTGGACCCCGGCCACTTC
CTGGACAACAAGACCAGGAGGAGGCCCTGTCTTACCGGAGCAGCACCATCGCCTCAGACCAGTG
GTGGACACGAGGACCTCACTGAGTTCCTGGACGAAGCCTCCTCACCAGGCGAGTTTGCCGCTTCTCTC
CTCCACCGGCTTCTCCCGAGCTCTTTCAGCACCGCAAGCTGGGTGAACAGTACAGCTGCTACGGGGAC
GGTGGAAGCAGGAGCTGGACCCGACGCGCTGCAGATCATCCGCAACTACACGGAGATCTACTTCCT
GACATGCAGGAGGAGGAGGCTGGCTGCAGCAGTGTGCCACGCGCATCAACGACGAGCTCGAGGGCCTG
GGGCTGGACGCGGCGAGTGAAGGCGACCCCGCGTGTACTGCTACGACTCCTCCAGTCTGCCCGAC
GACATCTCAGTGGTCAAGGTGAGGACAGCTTTCAGGGCGAGCGGCCGGGTGCGCGCTCCAAGAAGATC
TGGCTGGTGGCCATCGACTTTCGACAAGTTAGAGATCCCCCAGCCTGACTTCGAGGTGCCCGGTGCCGAC
TGCCTGCTCAGCAAGGAGCAGCTACGAGCATCTACGAGAGCAGCCTGTCCATCGGCAACTTCGCTCG
CGCCTGCTGGTGCACCTGTTCCCGAGCTTTCACGACGAGAACCCTGCGCAAGCAGTACAAGTGCAGC
GGCTCCTGGGCAAGAAGCAGCTGGACCCCTCCCGCATCAAGCTCATCCGCCACTACGTGCAGCTGCTC
TACCCACGCGCCAAAAACGACCGCTGTGGACCTGGAGTTCTGTGGGCAAACTGGATGAGCGCTGCCGG
CGCCGGGACACGGAGCAAGGCGCTCTACCAGCAGCAGCGCAAGTCCACGTGCCGGGCCCTGAGTGC
AGAGACTTGACCAGCTATGCAATCAACCCGAGAGGTTCCGGGAGGAGTTTGAGGGGCCCCACTGCCC
CCCGAGAGGAGCAGCAAGGACTTTTGCAAGATCCCTTGGACGAGCTGGTGGTCCCCTCGCCTGACTTC
CCGGTGCCTTCTCCCTACCTGCTGTCTGACAAGGAGGTGCGTGAGATCGTGACGAGAGCCTCTCCGTG
GGCAACTTTGCCGCCGGCTCTCGTCCGCTGTTTCCGAACTCTTACCGCCGAGAACCTCCGGCTG
CAGTACAACCATTCGGGGCTTGCAACAAGAAGCAACTGGACCCACGCGGCTGCGGCTCATCCGCCAC
TACGTGGAAGCCGTCTACCCGGTGGAGAAGATGGAGGAGGTGTGGCACTACGAATGTATCCCGAGCATC
GATGAGAGGTGCCCGGCCCCCAACAGGAAAAATGCGACATCTCAAGAAAGCAAGAAAGTGAGAGAAG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_001080450

Insert Size:

2487 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001080450.2
RefSeq Size:	6660 bp
RefSeq ORF:	2487 bp
Locus ID:	57673
UniProt ID:	Q5T5X7
Cytogenetics:	6q21
MW:	94.5 kDa

Gene Summary:

Transcriptional repressor which associates with the NoRC (nucleolar remodeling complex) complex and plays a key role in repressing rDNA transcription. The sumoylated form modulates the stability of the NoRC complex component BAZ2A/TIP5 by controlling its USP21-mediated deubiquitination (PubMed:21914818, PubMed:26100909). Binds to unmethylated major satellite DNA and is involved in the recruitment of the Polycomb repressive complex 2 (PRC2) to major satellites (By similarity). Stimulates the ERCC6L translocase and ATPase activities (PubMed:28977671).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.