

Product datasheet for RC203968

BEN Domain Containing Protein 5 (BEND5) (NM_024603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BEN Domain Containing Protein 5 (BEND5) (NM_024603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BEN Domain Containing Protein 5
Synonyms:	C1orf165
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203968 representing NM_024603 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGACAGTCTAGAAGATGCTGTGGTGCCCCGGGCTCTGTATGAGGAGCTGCTGCGCAACTACCAGCAGC
AACAGGAAGAGATGCGCCACCTCCAGCAGGAGCTGGAGCGGACTCGGAGGCAGCTGGTACAACAGGCCAA
GAAGCTCAAGGAGTACGGGGCACTTGTGTCTGAAATGAAGGAGCTCCGTGACCTAACCGGAGGCTCCAG
GACGTGCTCCTGAGGCTTGGCAGCGGTCCCGCCATTGATCTGGAAAAAGTAAAGTCAGAATGTCTCG
AGCCCCGAGCCGGAGTTACGGAGCACTTTCAGTGAGGAAGCAAATACGTCGTCCTATTACCCCGCTCCTGC
GCCTGTGATGGACAAGTATATCCTAGACAATGGCAAGGTCCATCTGGGAAGCGGGATTTGGGTTGATGAG
GAGAAATGGCACCAGCTACAAGTAACCCAAGGAGATTCCAAGTACACGAAGAAGTGGCAGTTATGATTT
GGGGAACAGATGTTCTGAAAAACAGAAGCGTCACAGGCGTCGCCACAAAAAAGAAAGATGCAGTCCC
TAAACCACCCCTCTCGCCTCACAACTAAGCATCGTCAGAGAGTGTGTTGATGACAGAATAGCACAAAGAA
ACTGTGGATGAACTGAAATTGCACAGAGACTCTCAAAGTCAACAAGTACATCTGTGAAAAAATCATGG
ATATCAATAAATCCTGTAAAAATGAAGAACGAAGGAAGCAAAATACAATTTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203968 representing NM_024603
 Red=Cloning site Green=Tags(s)

MDSLEDAVVPRALYEELLRNYQQQEEEMRHLQQELERTRRQLVQQAKKLKEYGALVSEMKELRDLNRRLO
 DVLLLLRLGSGPAIDLEKVKSECLEPEPELRTSTFSEEANTSSYYPAPAPVMDKYILDNGKVHLGSGI WVDE
 EKWHQLQVTQGD SKYTKNLAVMIWGTDLVKNRSVTGVATKKKKDAVPKPLSPHKLSIVRECLYDRIAQE
 TVDETEIAQRLSKVNKYICEKIMDINKSCKNEERREAKYNLQ

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_024603

ORF Size: 1263 bp

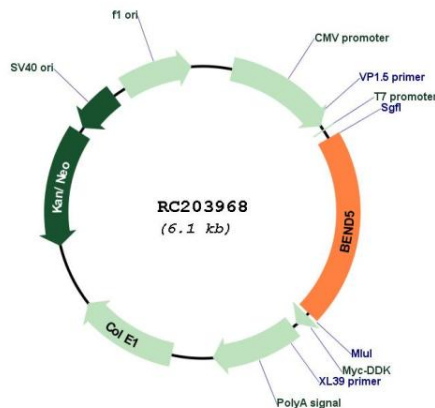
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

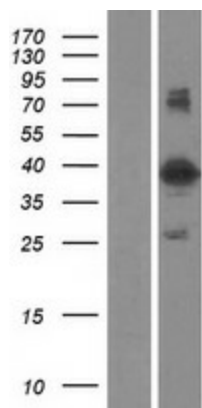
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM_024603.4](#)
- RefSeq Size:** 1781 bp
- RefSeq ORF:** 1266 bp
- Locus ID:** 79656
- UniProt ID:** [Q7L4P6](#)
- Cytogenetics:** 1p33
- MW:** 48.2 kDa
- Gene Summary:** Acts as a transcriptional repressor (PubMed:23468431).[UniProtKB/Swiss-Prot Function]

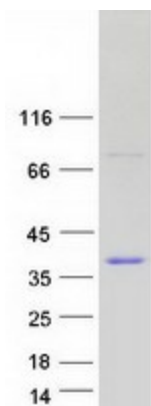
Product images:



Circular map for RC203968



Western validation with an anti-DDK antibody; L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified BEND5 protein (Cat# [TP303968]). The protein was produced from HEK293T cells transfected with BEND5 cDNA clone (Cat# RC203968) using MegaTran 2.0 (Cat# [TT210002]).