

Product datasheet for **RG212072**

BEND4 (NM_207406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BEND4 (NM_207406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BEND4
Synonyms:	CCDC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212072 representing NM_207406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGGAAGAGATGCAGCCGGCAGAGGAGGGGCCAGCGTCCCCAAATCTACAAGCAGCGCAGCCCT
 ACAGCGTCCTCAAGACGTTCCCCAGCAAGAGACCGGCGCTGGCCAAGCGTACGAGCGACCCACCCTGGT
 GGAGCTGCCGCAGTGCAGGGCGCCCCGCGCCCCCGCGCCCTTCGCGCGCACGCCGCGCTCTCCATC
 AGCAGCAGCGAGCCGCCGCCGAGCAGTTCAGGCGCAGAGCTCTACCCCCCGGGCCCGGGCGGGCCG
 CCGCGCGCGCTTCGTCGTCGTCGCGCTCTGCAGCGCCGCACATCCAGGGCCACTTGAGGACTCCGGC
 GCAGCCGCCGCCGCGTCCCCGCGCGCTCTCGTCGCTTCGTCGCGCTGTCGTGAGTATGGCCCA
 GCGCGCGCGCGGCCGCCGCGCACCGGCGGCACGGGTAGCGACAGCGCCAGCCTGGAGCTCAGCGCAGAGA
 GTCGAATGATCTTGATGCCTTTGCCAGCAGTGCAGTCGAGTCTTAGCCTCTAAATTGTGGAGGAAA
 ACTCCTGGACTCCAACCATCTCAGTCCATGATTTCTTGCCTAAAGCAGGAAGGCTCAAGTTACAACGAA
 AGACAGGAGCACTGTACATTGGGAAAGGGTCCACAGTCAGACCTCAGACAATGTAGACATAGAGATGC
 AGTATATGCAAAGGAAACAACAACTTCTGCCTTTTTGAGGGTTTTCACTGACTCTCTACAAAATTACCT
 GCTCTCGGGAAGCTTTCCAACCTCAAAACCCCTCGTCAGCCAGTGAATATGGCCATCTGGCCGACGTGGAT
 CCTCTGTCAACCTCTCCTGTGCATACATTAGGTGGCTGGACTTCCCAGCAACGTCCGAATCCCATGGCC
 ACCCATCTTCACTACACTGCCAGAAGAGGAGGAGGAGGAGGACGAGGAAGGCTATTGTCCTCGATGCCA
 AGAGCTGGAGCAGGAGGTTATTTCACTGCAACAAGAAAATGAAGAGCTCAGAAGGAAATTAGAGAGCATC
 CCAGTGCCTGCCAGACCGTTTTAGATTACTTGAAGATGGTCTGCAGCACCAACAACCACTCCTGATAC
 CACAGCCAGCTGACCAGCCGACAGAGGGAAGCAAGCAGCTGTTGAACAATATCCTGTCTACATAACGAG
 CAAACAGTGGGATGAGGCTGTAAATTTCAAAGAAAGATGGGAGACGGCTCCTTCGATACCTCATCAGA
 TTTGTTTTCAACCGATGAGCTTAAGTACTCATGCGGCTTGGGAAAAGGAAAGGTGAGTGCAGTCAG
 GAGAGACAGGTCCCGAAAGACGCCCTCTGGATCCAGTTAAAGTAACATGCCTCCGAGAATTCATTAGGAT
 GCATTGTACCTCAACCCGATTGGTGGATGCCCTCGAAGAGCAGATAAACAAGTGTTCAGCGACGCT
 GTCGGTCACGCCGACAGGGGCGGGCGGTGGGACTTTCTGCACAACGGTGGCTCATTTTATGAAGGGA
 TCGATCACCAGGCTTCTCAGGATGAAGTCTTCAATAAAAGTTCACAGGATGGATCTGGGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212072 representing NM_207406
 Red=Cloning site Green=Tags(s)

MEEEMQPAEEGPSVPKIYKQSPYSVLKTFPSKRPALAKRYERPTLVLPVHRAPPPPPPPFAPHAAVSI
 SSSEPPPPQFQAQSSYPGPGRAAAAASSSSPCTPATSQGHLRTPAQPPPASPAASSSSSFAAVVRYGP
 GAAAAAGTGGTGSASLEL SAESRMILDAFAQQCSRVL SLLNCGKLLDSNHSQSMISCVKQEGSSYNE
 RQEHCHIGKGVHSQTSNDVDIEMQYMRKQQTSAFLRVFTDSLQNYLLSGSFPTPNPSSASEYGHADVD
 PLSTSPVHTLGGWTPATSESHGHPSSSTLPEEEEEDEEGYCPRCQELEQEVISLQQENEELRRKLESI
 PVPCQTVLDYLMVQLQHNQLLIPQPADQPTESKQLLNYPVYITSKWDEAVNSSKKDGRLLRLYLIR
 FVFTTDELKYSGLGKRKRSVQSGETGPERRPLDPVKVTCREFIRMHCTSNPDWWMPSEEQINKVFSDA
 VGHARQGRAVGTFLHNGGSFYEGIDHQAQDEVFNKSSQDGSQD

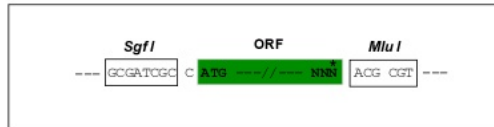
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

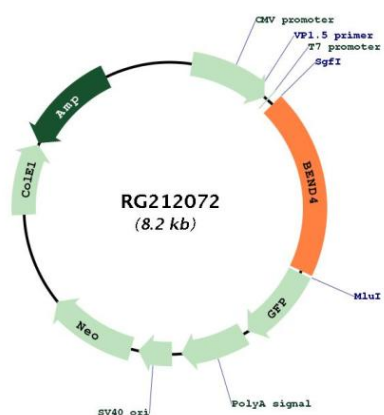
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTACTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -
 --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN:	NM_207406
ORF Size:	1602 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_207406.4
RefSeq Size:	8763 bp
RefSeq ORF:	1605 bp
Locus ID:	389206
UniProt ID:	Q6ZU67
Cytogenetics:	4p13

Product images:



Circular map for RG212072