

Product datasheet for **RR216842**

Btn1a1 (NM_001170337) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btn1a1 (NM_001170337) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Btn1a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216842 representing NM_001170337
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGTCCCACCAACTCTTGTCTTTGGTCTGTCTGCTCACCTTTACAGTCCTACAGCTACCTACGT
 TGGATTACAGCAGCTCCCTTCAATGTGACTGCACCTCAGGAGTCAGTGCTGGCCGTAGTGGTTTCAGATGC
 GGAGCTGACCTGTGCTTTTCCCAAACGCAAGCTCAGAGCAAATGGAGCTGCTGTGGTTTCGACAGACG
 AGGTCCGACGCGTACTTCTGTACCGGGCTGGCCAGGAGCAGGAGGGCGAGCAGATGACCGAGTACCACG
 GGAGGGCGACGCTGGTGACAGCCAGACTCTAGACGGCTCGCTACTCTGCGGATCCGAGGTGTGAGGGT
 CTCCGACCAGGGCAATACCGGTGCTTTCTCAAAGACAACGACGACTCCGAGGAGGCCGCTGTGCATCTC
 AAAGTGGTGTGTTGGGCTCAGATCCTTACATCAGTATGAAGTTCAAGAGAATGGAGACATGGAGCTGG
 AGTGCACCTCCTCTGGATGGTACCCAGAACCTCAGGTACAGTGGAGAACAGCCAACAGAGAGATGCTACC
 ACCCACATCAGAGTCCAGGAATCTGATACGGAAGGCTTGTTCAGTGTGACAGCTTCTATGATGATCAGA
 GACAACTCCATAAAGAATATGTCCTGCTGCATTAGAATATCCTCCTGGCCAGGGGAAGGAAGTAGAGA
 TCTCCTTACCAGCTCCCTTCTTGCCAAGGCTGACTCCTTGGATAGTAGCCTTGGCTATTGTCAATTTGGC
 CTTAGGGTTTCTCGAATCGGGTCCATATTTTTCACTTGGAACTATAACAAGAAAGATCTAGAGAGCGG
 AAGAAGGAATTTGGCTCTAAAGAGAGGCTTCTGGAAGAACTCAGATGCAAAAAGACTGCCCTTATGAAG
 TTGATGTGACTCTGGATCCAGACACAGCTACCCCCACCTCTTCTGTATGAAGATCAAAGTCGGTTTCG
 ATTGGAAGATTCACGTCAGATCCTGCCTGATAGACCAGAGAGATTTGACTCCTGGCCCTGCGTGTGGGC
 CGTGAGACCTTACTTCAGGGAGACATTATTGGGAGGTGGAGTGGGAGATAGAAGTATTGGGCCATTG
 GTGTGTAGGGAGAATGTGGTGAAGAAAGGTTTGACCCATGACTCCTGATAATGGGTTCTGGGCTGG
 GGAGTTGTATGGAAATGGGTACTGGGCCCTCACCCCACTCCGGACCCCTCTCCGGTTGGCAGGACCCCT
 CGCCGAGTTGGGTTTTTTTGGACTATGAATTAGGAGACATTTCTTCTACAATAGAGTATGGATCTC
 TTATCTATGCTTCCCTAGCATCTTTTCTCTGGTCCCCTCCGTCCTTCTTTTGTCTGTGGTCTGTGG
 TAAAAAGCCCTAACCATCTGTCCAACCGCAATGTGCCTGAGAAAATCACAGTCATTGCTAATGTCCAG
 GACAACATTCCCTTGTCCCCTCTGGGGGAAGGCTCTACTTCAGGAGACAAAGATAGTCTCCATTCTAAAC
 TGATACCTTCTCACCTAGCCAAGCAGCACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216842 representing NM_001170337
 Red=Cloning site Green=Tags(s)

MAVPTNSCPLVCLLTFVQLPLDLSAAPPNVTAPQESVLAVVGSDAELTCRFSPNASSEQMELLWFRQT
 RSPAVLLYRAGQEQEQQMTEYHGRATLVARLLDGLATLRIRGVRVSDQGQYRCFLKDNDSEEAHVH
 KVAAVGSDPYISMKVQENGDMLECTSSGWYPEPQVQWRTANREMLPPTSESRNPDEGLFTVTASMMIR
 DNSIKNMSCCIQNILLGQKVEVEISLPAPFLPRLTPWIVALAIVILALGFLAIGSIFFTWKLYKERSRER
 KKEFGSKERLLEELRCKKTALHEVDVTLDPDTHPHLFLYEDSKSVRLEDSRQILPDRPERFDSWPCVLG
 RETFTSGRHYWEVEVGDRTDWAIGVCRENVVKKGFDPMPDNDFWAVELYNGYWALPLRTPRLRAGPP
 RRVGVFLDYELGDISFYNMSDGLIYAFPSISFSGPLRPFCLWSCGKKPLTICPTANVPEKITIVIANVQ
 DNIPLSPLGEGSTSGDKSLHSLKIPFSPSQAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001170337

ORF Size: 1572 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_001170337.1](#), [NP_001163808.1](#)
RefSeq Size: 1575 bp

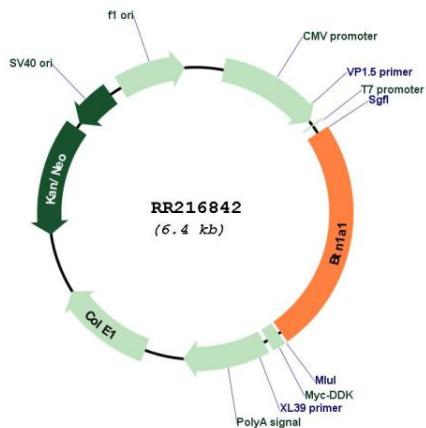
RefSeq ORF: 1575 bp

Locus ID: 306956

Cytogenetics: 17p11

MW: 58.5 kDa

Product images:



Circular map for RR216842