

Product datasheet for **MC228444**

Btrc (NM_001286465) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btrc (NM_001286465) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Btrc
Synonyms:	b-TrCP; beta-TrCP; Beta-Trcp1; E3RS-IkappaB; E3RSIkappaB; Fbw1a; FWD1; HOS; Slimb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228444 representing NM_001286465
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCGGCAGAGCGGTGCTGCAGGAGAAAGCGCTTAAGTTTATGTGCTCTATGCCAGGTCTCTGT
 GGCTGGGCTGCTCCAGCCTGGCGGACAGCATGCCTTCGCTGCATGCCTGTATAACCCAGGGACTGGCGC
 ACTCACAGCTTTCCAGAATTCCTCAGAGAGAGAAGACTGTAATAATGGCGAACCCCTAGGAAGATAATA
 CCAGAGAAGAATTCACCTAGACAGACTTACAACAGCTGTGCCAGGCTTTCATAAACCAAGAGACAGTAT
 GTCTAACAAAGCACTGCTATGAAGACTGAAAATTGTGTGGCCAAAGCCAACTTGCCAATGGCACTTCCAG
 CATGATTGTGCCAAGCAGCGGAACTCTCAGCAAGCTATGAGAAGGAAAAGGAGCTGTGTGTCAAGTAT
 TTTGAGCAGTGGTCAGAGTCTGATCAAGTGAATTTGTAGAACACCTTATATCCCAATGTGCTACTACC
 AGCATGGGCACATCAACTCCTACCTAAAACCTATGCTGCAGAGGGATTCATAACTGCCTGCCAGCAGC
 GGGTCTGGACCACATCGCTGAGAACATTCTGTCATACTTGGACGCCAAGTCACTGTGTGCTGCTGAGCTC
 GTGTGCAAGGAATGGTACCGCTGACGTCGGACGGCATGCTGTGAAAAAGCTCATCGAGAGGATGGTCA
 GGACGGACTCTCTGTGGCGAGGCCCTGGCAGAGCGCAGAGGCTGGGGACAGTACTTATCAAAAAACAACC
 TCCTGATGAGAACGCTCCTCCAACTCCTTTTATAGAGCGCTTTATCCTAAAATCATACAAGACATTGAG
 ACAATAGAGTCCAATGGAGATGTGGGCGACATAGTTTACAGAGAATCCACTGCCGGAGTGAAACAAGTA
 AAGGGGTTTACTGTTTACAGTACGACGACCAGAAGATAGTCAGCGGCCTTCGAGACAACACCATCAAGAT
 CTGGGATAAAAGCACACTGGAATGCAAGCGGATTCTCACGGGCCACACGGGCTCCGTCTGTGTCTGCAG
 TACGATGAGAGGGTGATCATCACAGGCTCCTCAGACTCCACCGTCAGAGTGTGGGATGTAATGCAGGTG
 AGATGCTAAACACATTGATTCACCACTGTGAAGCCGTTCTGCACCTGCGCTTCAATAATGGCATGATGGT
 GACCTGTTCCAAAGACCGTTCCATCGCTGTGTGGGATATGGCTTCCCAACTGACATCACCTCAGGAGG
 GTGCTGGTGGGACACCGAGCTGCGGTCAATGTTGTAGACTTTGATGACAAGTACATCGTTTCTGCCTCTG
 GAGATAGAACCATAAAGGTGTGGAACACAAGTACCTGTGAATTCGTAAGGACCCTAAATGGGCACAAGCG
 TGGCATCGCCTGTTTGCAGTACAGAGACAGGCTGGTGGTGGAGCGGCTCCTCTGACAACACCATCAGGCTG
 TGGGACATAGAGTGTGGAGCATGCCTGCGAGTGTGGAGGGCCATGAGGAGTTGGTACGCTGCATTTCGAT
 TTGATAACAAAAGGATAGTGAGCGGAGCCTATGATGGGAAAATTAAGTGTGGGATCTTATGGCTGCTTT
 GGACCCGCGTGTCCAGCAGGGACTCTCTGTCTCGGACACTTGTGGAGCATTCTGGAAGAGTTTCCGC
 CTCAGTTTGTGAATTCAGATTGTGAGTACATGATGACACAATTCTCATCTGGGACTTCTCTGA
 ATGATCCAGCTGCTCACGCTGAACCGCCCCGCTCCCTTCTCGGACATACACTACATCTCCAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286465
- Insert Size:** 1818 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001286465.1](#), [NP_001273394.1](#)

RefSeq Size: 6340 bp

RefSeq ORF: 1818 bp

Locus ID: 12234

UniProt ID: [Q3ULA2](#)

Cytogenetics: 19 C3

Gene Summary: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes and binds to phosphorylated target proteins (PubMed:10097128, PubMed:16371461, PubMed:18782782, PubMed:9859996, PubMed:9990853, PubMed:21911472). SCF(BTRC) mediates the ubiquitination of phosphorylated NFKB, ATF4, CDC25A, DLG1, FBXO5, PER1, SMAD3, SMAD4, SNAI1 and probably NFKB2. SCF(BTRC) mediates the ubiquitination of CTNNB1 and participates in Wnt signaling (By similarity). SCF(BTRC) mediates the ubiquitination of NFKBIA, NFKBIB and NFKBIE; the degradation frees the associated NFKB1 to translocate into the nucleus and to activate transcription (PubMed:9859996, PubMed:10097128). Ubiquitination of NFKBIA occurs at 'Lys-21' and 'Lys-22' (PubMed:9859996, PubMed:10097128). SCF(BTRC) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (By similarity). SCF(BTRC) mediates the ubiquitination and subsequent degradation of nuclear NFE2L1 (PubMed:21911472). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and PER2 (PubMed:18782782). May be involved in ubiquitination and subsequent proteasomal degradation through a DBB1-CUL4 E3 ubiquitin-protein ligase (By similarity). Required for activation of NFKB-mediated transcription by IL1B, MAP3K14, MAP3K1, IKKBK and TNF (By similarity). Required for proteolytic processing of GLI3 (PubMed:16371461). Mediates ubiquitination of REST, thereby leading to its proteasomal degradation (By similarity).[UniProtKB/Swiss-Prot Function]