

Product datasheet for MR229625

Btrc (NM_001286466) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Btrc (NM_001286466) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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
ORF Nucleotide Sequence:	>MR229625 representing NM_001286466 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGTGGAAAAGCTCATCGAGAGGATGGTCAGGACGGACTCTCTGTGGCGAGGCCTGGCAGAGCGCA
GAGGCTGGGGACGACTTATTCAAACAAACCTCCTGATGAGAACGCTCCTCCAACCTTTTTATAG
AGCGCTTTATCCTAAAATCATAAAGACATTGAGACAATAGAGTCCAATTGGAGATGTGGCGACATAGT
TTACAGAGAATCCACTGCCGGAGTGAAACAAGTAAAGGGGTTTACTGTTTACAGTACGACGACCAGAAGA
TAGTCAGCGGCCTTCGAGACAACACCATCAAGATCTGGGATAAAAAGCACACTGGAATGCAAGCGGATTCT
CACGGGCCACACGGGCTCCGTCCTGTGTCTGCAGTACGATGAGAGGGTGCATCACAGGCTCCTCAGAC
TCCACCGTCAGAGTGTGGGATGTAATGCAGGTGAGATGCTAAACACATTGATTCACCACTGTGAAGCCG
TTCTGCACCTGCGCTTCAATAATGGCATGATGGTGACCTGTTCCAAGACCGTTCATCGCTGTGTGGGA
TATGGCTTCCCAACTGACATCACCTCAGGAGGGTGTGGTGGGACACCGAGCTGCGGTCAATGTTGTA
GACTTTGATGACAAGTACATCGTTTCTGCCTCTGGAGATAGAACCATAAAGGTGTGGAACACAAGTACCT
GTGAATTCGTAAGGACCCTAAATGGGCACAAGCGTGGCATCGCCTGTTTGCAGTACAGAGACAGGCTGGT
GGTGAGCGGCTCCTCTGACAACACCATCAGGCTGTGGGACATAGAGTGTGGAGCATGCCTGCGAGTGTG
GAGGGCCATGAGGAGTTGGTACGCTGCATTGATTTGATAAACAAGGATAGTGAGCGGAGCCTATGATG
GGAAAATTAAGTGTGGGATCTTATGGCTGCTTTGGACCGCGTCTCCAGCAGGGACTCTCTGTCTGCG
GACACTTGTGGAGCATTCTGGAAGAGTTTTCCGCCTCCAGTTTGTGAATTCCAGATTGTGAGTAGTTCA
CATGATGACACAATTCTCATCTGGGACTTCTGAATGATCCAGCTGCTCACGCTGAACCGCCCGCTCCC
CTTCTCGGACATACCTACATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229625 representing NM_001286466
Red=Cloning site Green=Tags(s)

MLWKKLIERMVRTDSLWRGLAERRGWGQYLFKNKPPDENAPPNSFYRALYPKIIQDIETIESNWRCGRHS
 LQRHCRSETSKGVYCLQYDDQKIVSGLRDNTIKIWDKSTLECKRILTGHTGSVLCQYDERVITGSSD
 STVRVWDVNAGEMLNTLIHHCCEAVLHLRFNNGMMVTCCKDRSIAVWDMASPTDITLRRVLVGHRAAVNVV
 DFDDKYIVSASGDRTIKVVNTSTCEFVRTLNHGKRGIAQLQYRDRLVVS GSSDNTIRLWDIECGACLRLV
 EGHEELVRCIRFDNKRIVSGAYDGKIKVWDLMAALDPRAPAGTLCRLTLVEHSGRVFRLQFDEFQIVSS
 HDDTILWDFLNDPAAHAEPPRSPSRITYTISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

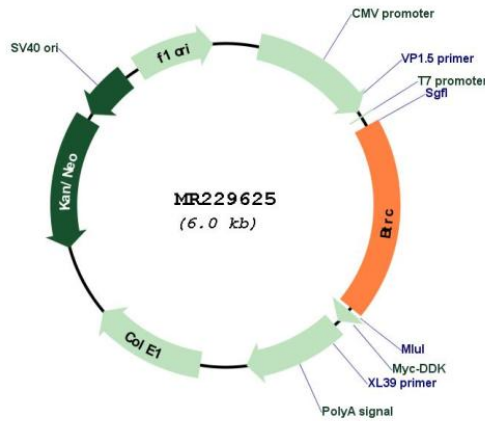
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286466

ORF Size:	1149 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:	<ol style="list-style-type: none">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_001286466.1 , NP_001273395.1
RefSeq Size:	6126 bp
RefSeq ORF:	1152 bp
Locus ID:	12234
UniProt ID:	Q3ULA2
Cytogenetics:	19 C3
MW:	44.4 kDa

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, IKBKB 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]