

Product datasheet for **RC232989**

Beta TRCP (BTRC) (NM_001256856) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta TRCP (BTRC) (NM_001256856) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTRC
Synonyms:	BETA-TRCP; betaTrCP; bTrCP; bTrCP1; FBW1A; FBXW1; FBXW1A; FWD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232989 representing NM_001256856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCGGCCGAGCGGTGCTGCAAGAGAAGGCACTCAAGTTATGTGCTCTATGCCAGGTCTCTGT
 GGCTGGGCTGCTCCAGCCTGGCGGACAGCATGCCTTCGCTGCGATGCCTGTATAACCCAGGGACTGGCGC
 ACTCACAGCTTTCCAGACATACAACAGCTGTGCCAGACTCTGCTTAAACCAAGAAACAGTATGTTTAGCA
 AGCACTGCTATGAAGACTGAGAATTGTGTGGCCAAAACAAAACCTGCCAATGGCACTTCCAGTATGATTG
 TGCCCAAGCAACGGAACTCTCAGCAAGCTATGAAAAGGAAAAGGAACTGTGTGCAAACTTTGAGCA
 GTGGTCAGAGTCAGATCAAGTGAATTTGTGGAACATCTTATATCCCAAATGTGTCATTACCAACATGGG
 CACATAAACTCGTATCTTAAACCTATGTTGCAGAGAGATTTCACTAACTGCTCTGCCAGCTCGGGGATTGG
 ATCATATTGCTGAGAACATTCTGTACACTGGATGCCAATCACTATGTGCTGCTGAACCTGTGTGCAA
 GGATGGTACCGAGTGACCTCTGATGGCATGCTGTGGAAGAAGCTTATCGAGAGAATGGTCAGGACAGAT
 TCTCTGTGGAGAGGCCTGGCAGAACGAAGAGGATGGGGACAGATTTTATTTCAAAAACAAACCTCCTGACC
 GGAATGCTCCTCCAACTCTTTTATAGAGCACTTTATCCTAAAATTATACAAGACATTGAGACAATAGA
 ATCTAATTGGAGATGTGGAAGACATAGTTTACAGAGAATCACTGCCGAAGTGAACAAGCAAAGGAGTT
 TACTGTTTACAGTATGATGATCAGAAAATAGTAAGCGGCCTTCGAGACAACAATCAAGATCTGGGATA
 AAAACACATTGGAATGCAAGCGAATTCTCACAGGCCATACAGGTTCACTCCTCTGTCTCCAGTATGATGA
 GAGAGTGATCATAACAGGATCATCGGATCCACGGTCAGAGTGTGGGATGTAATACAGGTGAAATGCTA
 AACACGTTGATCCACATTGTGAAGCAGTCTGCACCTTGCCTTCAATAATGGCATGATGGTGACCTGCT
 CCAAAGATCGTTCCATTGCTGTATGGGATATGGCCTCCCAACTGACATTACCCTCCGGAGGGTCTGGT
 CGGACACCGAGCTGCTGCAATGTTGAGACTTTGATGACAAGTACATTGTTTCTGCATCTGGGGATAGA
 ACTATAAAGGTATGGAACACAAGTACTTGTGAATTTGTAAAGACCTTAAATGGACACAAACGAGGCATTG
 CCTGTTTGCAGTACAGGGACAGGCTGGTAGTGAGTGGCTCATCTGACAACACTATCAGATTATGGGACAT
 AGAATGTGGTGCATGTTTACGAGTGTAGAAAGCCATGAGGAATTGGTGCCTTGTATTGATTTGATAAC
 AAGAGGATAGTCAGTGGGCCTATGATGGAAAAATTAAGTGTGGGATCTTGTGGCTGCTTTGGACCCCC
 GTGCTCCTGCAGGGACACTCTGTCTACGGACCCTTGTGGAGCATTCCGGAAGAGTTTTTCGACTACAGTT
 TGATGAATCCAGATTGCAGTAGTTCACATGATGACACAATCCTCATCTGGGACTTCTAAATGATCCA
 GCTGCCAAGCTGAACCCCCCTTCCCTTCTCGAACATACACCTACATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232989 representing NM_001256856
 Red=Cloning site Green=Tags(s)

MDPAEAVLQEKALKFMCSMPRSLWLGCSLADSMPSLRCLYNPGTGALTAFTQYNSCARLCLNQETVCLA
 STAMKTENCVAKTKLANGTSSMIVPKQRKLSASYEKEKELCVKYFEQWSESDQVEFVEHLISQMCHYQHG
 HINSYLKPLMRDFITALPARGLDHIAENILSYLDAKSLCAAELVCKEYRVTS DGMLWKKLIERMVRTD
 SLWRGLAERRGWQYL FKNKPPDGNAPPNSFYRALYPKIIQDIETIESNWRCGRHSLQRIHCRSETSKGV
 YCLQYDDQKIVSGLRDNTIKIWDKNTLECKRILTGHTGSVLCLQYDERVITGSSDSTVRVWDVNTGEML
 NTLIHHCEAVLHLRFNNGMMVTCSKDRSIAVWDMASPTDITLRRVLVGHRAAVNVVDFDDKYIVSASGDR
 TIKVWNTSTCEFVRTLNHGKRGIAQLQYRDRLVVS GSSDNTIRLWDIECGACLRVLEGHEELVRCIRFDN
 KRIVSGAYDGKIKVWDLVAALDPRAPAGTLCLRTLVEHSGRVFRLQFDEFQIVSSSHDDTILIWDFLNDP
 AAQAEPSPRSRTYTYISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

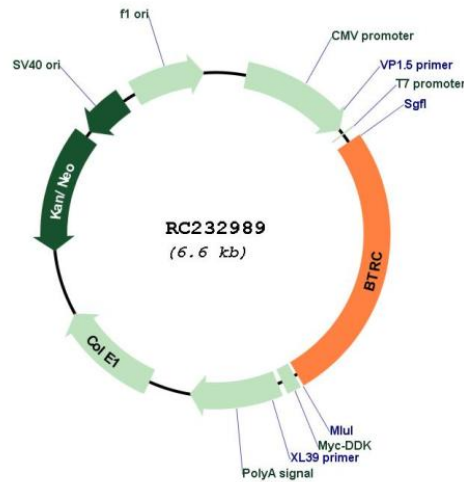
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001256856
 ORF Size: 1737 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_001256856.1 , NP_001243785.1
RefSeq Size:	6102 bp
RefSeq ORF:	1740 bp
Locus ID:	8945
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome
Protein Pathways:	Hedgehog signaling pathway, Oocyte meiosis, Ubiquitin mediated proteolysis, Wnt signaling pathway
MW:	66.3 kDa
Gene Summary:	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbws class; in addition to an F-box, this protein contains multiple WD-40 repeats. The encoded protein mediates degradation of CD4 via its interaction with HIV-1 Vpu. It has also been shown to ubiquitinate phosphorylated NFKBIA (nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha), targeting it for degradation and thus activating nuclear factor kappa-B. Alternatively spliced transcript variants have been described. A related pseudogene exists in chromosome 6. [provided by RefSeq, Mar 2012]