

Product datasheet for **RC207025**

Beta TRCP (BTRC) (NM_033637) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta TRCP (BTRC) (NM_033637) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Beta TRCP
Synonyms:	BETA-TRCP; betaTrCP; bTrCP; bTrCP1; FBW1A; FBXW1; FBXW1A; FWD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207025 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCCGGCCGAGGCGGTGCTGCAAGAGAAGGCACTCAAGTTTATGTGCTCTATGCCAGGTCTCTGT
 GGCTGGGCTGCTCCAGCCTGGCGGACAGCATGCCTTCGCTGCGATGCCTGTATAACCCAGGGACTGGCGC
 ACTCACAGCTTTCCAGAATTCCTCAGAGAGAGAAGACTGTAATAATGGCGAACCCCTAGGAAGATAATA
 CCAGAGAAGAATTCACCTAGACAGACATACAACAGCTGTGCCAGACTCTGCTTAAACCAAGAAACAGTAT
 GTTTAGCAAGCACTGCTATGAAGACTGAGAATTGTGTGGCCAAAACAAAATTGCCAATGGCACTTCCAG
 TATGATTGTGCCAAGCAACGAAACTCTCAGCAAGCTATGAAAAGGAAAAGGAAGTGTGTGCAAAATAC
 TTTGAGCAGTGGTCAGAGTCAGATCAAGTGAATTTGTGGAACATCTTATATCCCAATGTGTCATTACC
 AACATGGGCACATAAACTCGTATCTTAAACCTATGTTGCAGAGAGATTCATAACTGCTCTGCCAGCTCG
 GGGATTGGATCATATTGCTGAGAACATTCTGTCATACCTGGATGCCAAATCACTATGTGCTGCTGAAGTT
 GTGTGCAAGGAATGGTACCGAGTGACCTCTGATGGCATGCTGTGGAAGAAGCTTATCGAGAGAATGGTCA
 GGACAGATTCTCTGTGGAGAGGCCCTGGCAGAACGAAGAGGATGGGGACAGTATTTATTCAAAAACAAACC
 TCCTGACGGGAATGCTCCTCCAACTCTTTTTATAGAGCACTTTTATCCTAAAATTATACAAGACATTGAG
 ACAATAGAATCTAATTGGAGATGTGGAAGACATAGTTTACAGAGAATTCAGTCCGGAAGTAAAACAAGCA
 AAGGAGTTTACTGTTTACAGTATGATGATCAGAAAATAGTAAGCGGCCTTCGAGACAACACAATCAAGAT
 CTGGGATAAAAACACATTGGAATGCAAGCGAATTCACAGGCCATACAGGTTTCACTCTGTCTCCAG
 TATGATGAGAGAGTATCATAACAGGATCATCGGATTCACGGTCAGAGTGTGGGATGTAATAACAGGTG
 AAATGCTAAACACGTTGATTCCACCATTGTGAAGCAGTTCTGCACCTGCGTTTCAATAATGGCATGATGGT
 GACCTGCTCCAAGATCGTTCATTGCTGTATGGGATATGGCCTCCCAACTGACATTACCTCCGGAGG
 GTGCTGGTCGGACACCGAGCTGCTGTCAATGTTGTAGACTTTGATGACAAGTACATTGTTTCTGCATCTG
 GGGATAGAACTATAAAGGTATGGAACACAAGTACTTGTGAATTTGTAAGGACCTTAAATGGACACAAACG
 AGGCATTGCCTGTTTGCAGTACAGGGACAGGCTGGTAGTGAGTGGCTCATCTGACAACACTATCAGATTA
 TGGGACATAGAATGTGGTGCATGTTTACGAGTGTAGAAGGCCATGAGGAATTTGGTGCCTGTTATTCGAT
 TTGATAACAAGAGGATAGTCAGTGGGCTATGATGGAAAATTAAGTGTGGGATCTTGTGGCTGCTTT
 GGACCCCGTGTCTCTGCAGGGACTCTGTCTACGGACCCTTGTGGAGCATTCCGGAAGAGTTTTTCGA
 CTACAGTTTGATGAATTCAGATTGTGAGTACATGATGACACAATCCTCATCTGGGACTTCTCTAA
 ATGATCCAGCTGCCAAGCTGAACCCCGCTTCCCTTCTCGAACATACACTACATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207025 protein sequence
 Red=Cloning site Green=Tags(s)

MDPAEAVLQEKALKFMCSMPRSLWLGCSLADSMPSLRCLYNPGTGALTAFAQNSSEREDCNNGEPKRII
 PEKNSLRQTYNSCARLCLNQETVCLASTAMKTENCVAKTKLANGTSSMIVPKQRKLSASYEKEKELCVKY
 FEQWSESDQVEFVEHLISQMCHYQHGHIINSYLPMLQRDFITALPARGLDHIAENILSYLDAKSLCAAEL
 VCKEYWRVTSDGMLWKKLIERMVRTDSLWRGLAERRGWQYLFKNKPPDGNAPPNSFYRALYPKIIQDIE
 TIESNWRRCGRHSLQRIHCRSETSKGVYCLQYDDQKIVSGLRDNTIKIWDKNTLECKRILTGHTGSVLCLO
 YDERVITGSSDSTVRVVDVNTGEMLNTLIHCEAVLHLRFNNGMMVTCCKDRSIAVWDMASPTDITLRR
 VLVGHRAAVNVDFDDKYIVSASGDRTIKVWNTSTCEFRVRLNGHKRGIACLQYRDRLVVSAGSSDNTIRL
 WDIECGACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLVAALDPRAPAGTLCLRTLVEHSGRVFR
 LQFDEFQIVSSSHDDTILIWDFLNDPAAQAEPSPSRPTYTISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6197_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033637

ORF Size: 1815 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_033637.4](#)

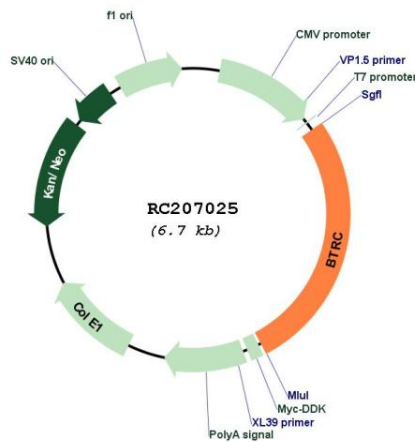
RefSeq Size: 6180 bp

RefSeq ORF: 1818 bp

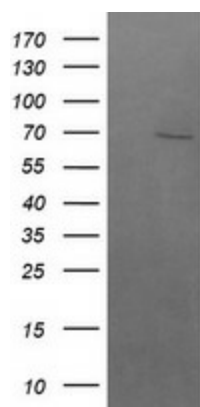
Locus ID: 8945

UniProt ID:	<u>Q9Y297</u>
Cytogenetics:	10q24.32
Domains:	WD40, F-box
Protein Families:	Druggable Genome
Protein Pathways:	Hedgehog signaling pathway, Oocyte meiosis, Ubiquitin mediated proteolysis, Wnt signaling pathway
MW:	68.9 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]

Product images:



Circular map for RC207025



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BTRC (Cat# RC207025, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BTRC (Cat# [TA502465]).