

Product datasheet for **SC314040**

Beta TRCP (BTRC) (NM_003939) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta TRCP (BTRC) (NM_003939) Human Untagged Clone
Tag:	Tag Free
Symbol:	Beta TRCP
Synonyms:	BETA-TRCP; betaTrCP; bTrCP; bTrCP1; FBW1A; FBXW1; FBXW1A; FWD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_003939 edited
 CCCC GCGG GAGAGCGG ACCCAGTGGCCTCGGCGATTATGGACCCGGCCGAGGCGGTGCTG
 CAAGAGAAGGCACTCAAGTTTATGAATTCCTCAGAGAGAGAAGACTGTAATAATGGCGAA
 CCCCTAGGAAGATAATACCAGAGAAGAATTCCTTAGACAGACATAACAACAGCTGTGCC
 AGACTCTGCTTAAACCAAGAAACAGTATGTTTAGCAAGCACTGCTATGAAGACTGAGAAT
 TGTGTGGCCAAAACAAAACCTTGCCAATGGCACTCCAGTATGATTGTGCCAAGCAACCG
 AAACCTCAGCAAGCTATGAAAAGGAAAAGGAAGTGTGTCAAATACTTTGAGCAGTGG
 TCAGAGTCAGATCAAGTGGAAATTTGTGGAACATCTTATATCCCAAATGTGCATTACCAA
 CATGGGCACATAAACTCGTATCTTAAACCTATGTTGCAGAGAGATTTCAAACTGCTCTG
 CCAGCTCGGGGATTGGATCATATTGCTGAGAACATTCTGTACACCTGGATGCCAAATCA
 CTATGTGCTGCTGAACTTGTGTGCAAGGAATGGTACCGAGTGACCTCTGATGGCATGCTG
 TGGAAGAAGCTTATCGAGAGAATGGTCAGGACAGATTCTCTGTGGAGAGGCTGGCAGAA
 CGAAGAGGATGGGACAGTATTTATTCAAAAACAAACCTCCTGACGGGAATGCTCCTCCC
 AACTCTTTTTATAGAGCACTTTATCCTAAAATTATACAAGACATTGAGACAATAGAACT
 AATTGGAGATGTGGAAGCATAGTTTACAGAGAATTCCTGCCGAAGTGAACAAGCAAA
 GGAGTTTACTGTTTACAGTATGATGATCAGAAAATAGTAAGCGGCCTTCGAGACAACACA
 ATCAAGATCTGGGATAAAAACACATTGGAATGCAAGCGAATTCACAGGCCATACAGGT
 TCAGTCTCTGTCTCCAGTATGATGAGAGAGTGATCATAACAGGATCATCGGATCCACG
 GTCAGAGTGTGGGATGTAATACAGGTGAAATGCTAAACACGTTGATTACCACTTGTGAA
 GCAGTTCTGCACTTGCCTTTCAATAATGGCATGATGGTGACCTGCTCAAAGATCGTTCC
 ATTGCTGTATGGGATATGGCCTCCCAACTGACATTACCTCCGGAGGGTGTGGTCGGA
 CACCGAGCTGCTGCAATGTTGTAGACTTTGATGACAAGTACATTGTTTCTGCATCTGGG
 GATAGAAGTATAAAGGTATGGAACACAAGTACTTGTGAATTTGTAAGGACCTTAAATGGA
 CACAAACGAGGCATTGCCTGTTTGCAGTACAGGGACAGGCTGGTAGTGAGTGGCTCATCT
 GACAACACTATCAGATTATGGGACATAGAATGTGGTGCATGTTTACGAGTGTAGAAGGC
 CATGAGGAATTTGGTGCCTGATTTCGATTTGATAACAAGAGGATAGTCAGTGGGCGCTAT
 GATGGAAAAATTAAGTGTGGGATCTTGTGGCTGCTTTGGACCCCGTCTCCTGCAGGG
 ACACTCTGTCTACGGACCCTTGTGGAGCATTCCGGAAGAGTTTTTCGACTACAGTTTGT
 GAATCCAGATTGTCAGTAGTTCACATGATGACACAATCCTCATCTGGGACTTCTAAAT
 GATCCAGCTGCCAAGCTGAACCCCGTTCCCTTCTCGAACATACACCTACATCTCC
 AGATAAATAACCATACACTGACCTCATACTTGCCAGGACCCATTAAGTTGCGGTATTT
 AACGTATCTGCCAATACCAGGATGAGCAACAACAGTAACAATCAAACACTGCCCCAGTTT
 CCCTGGACTAGCCGAGGAGCAGGGCTTTGAGACTCCTGTTGGGACACAGTTGGTCTGCAG
 TCGGCCAGGACGGTCTACTCAGCACAAGTACTGCTTCAAGTGTGCTATCAGAAGATGT
 CTTCTATCTTTTGAATGATTGGAACTTTTAAACCTCCCTCCTCCTCCTTTACCT
 CTGCACCTAGTTTTTCCATTGGTTCAGACAAAAGGTGACTTATAAATATATTTAGTGT
 TTTGCCAGAATCTCTTGTCTTGGCATTAAAGCAGAAGAACTAGTTTCCCTGTATAGCCT
 GCTGGGAGAGACCCACTTCTAGGGTATGGGGATGCAGCTTCAAGCCCAGTGCCCAAGTGT
 CTCCTGTTAACTGCAGGAATGCCAAGCACCTGGCCAGAGCAGCCAGCCCAATATGCT
 TAGGAGGAGACAGAGTTCCCTCTGTATAGCCTCTGGGACAAGAAAAAGAAAACACAAGAA
 TGTATACACTGGAAGATTTGGGCTCCTGCCTGCCTTCTTTGTTTCTGTTCTCTTCC
 CATCTACTCCCCTACGCCCTTCAACCTTTTTTCTGTCTGCTTACCTGAGAAGAAAAG
 TGTACGAAGAGAGTGTCTCCTCTCACATGAGCCAGATCAGCCAGAAAATGCAACACTTG
 GAAGAGTTAAATGCTGTTCAAGTAAAGATTTAGCCCCAGGCTTTGCTGCAAGTGACCT
 GTGGCAACAGTGGATTCTCAGACATGATACTCTCATCATATTTGCAACTTCTCTCTCT
 TTCTTCCCACACCCAAGAGGAGGATTGGTGGTAGGGGACAGGAGGGGGTGGGGAGA
 AGTTTCTGGGCTCCATCAATGGCTGCATTTTTCTGGACTCAGCAGTCTCCTTGATTCC
 ATGTAGAGTGTGGAAGGAGTTGCTGATTGCATTTCTCTCATTAAACAATTTGGGTGTGTA
 ATAAAAAGCATTGTACTTTCATCTTAAAAAATAAAAAAAAAAAAAAAAAAAGTCTGAC

Restriction Sites:

Please inquire

ACCN:	NM_003939
Insert Size:	2900 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003939.2.
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:	<u>NM_003939.2</u> , <u>NP_003930.1</u>
RefSeq Size:	6038 bp
RefSeq ORF:	1710 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

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note:.