

Product datasheet for **SC110015**

Beta TRCP (BTRC) (NM_033637) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta TRCP (BTRC) (NM_033637) 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_033637 edited
 GAATTCGGCACGAGGCCCGCGGAGAGCGGACCCAGTGGCCTCGGCGATTATGGACCCG
 GCCGAGGCGGTGCTGCAAGAGAAGGCACTCAAGTTTATGTGCTCTATGCCAGGTCTCTG
 TGGCTGGGCTGCTCCAGCCTGGCGGACAGCATGCCTTCGCTGCGATGCCTGTATAACCCA
 GGGACTGGCGCACTCACAGCTTTCCAGAATTCCTCAGAGAGAGAAGACTGTAATAATGGC
 GAACCCCTAGGAAGATAATACCAGAGAAGAATCACTTAGACAGACATAACAACAGCTGT
 GCCAGACTCTGCTTAAACCAAGAAACAGTATGTTTAGCAAGCACTGCTATGAAGACTGAG
 AATTGTGTGGCCAAAACAAAACCTTGCCAATGGCACTTCCAGTATGATTGTGCCAAAGCAA
 CGGAAACTCTCAGCAAGCTATGAAAAGGAAAAGGAACTGTGTGTCAAATACTTTGAGCAG
 TGGTCAGAGTCAGATCAAGTGAATTTGTGGAACATCTTATATCCCAAATGTGTCATTAC
 CAACATGGGCACATAAACTCGTATCTTAAACCTATGTTGCAGAGAGATTCATAACTGCT
 CTGCCAGCTCGGGGATTGGATCATATTGCTGAGAACATTCTGTCATACCTGGATGCCAAA
 TCACTATGTGCTGCTGAACTTGTGTGCAAGGAATGGTACCGAGTGACCTCTGATGGCATG
 CTGTGGAAGAAGCTTATCGAGAGAATGGTCAGGACAGATTCTCTGTGGAGAGGCCTGGCA
 GAACGAAGAGGATGGGGACAGTATTTATCAAAAACAAACCTCCTGACGGGAATGCTCCT
 CCCAACTCTTTTTATAGAGCACTTTATCCTAAAATATACAAGACATTGAGACAATAGAA
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 GAAGCAGTTCTGCACTTCGCTTTCAATAATGGCATGATGGTGACCTGCTCCAAGATCGT
 TCCATTGCTGTATGGGATATGGCCTCCCAACTGACATTACCCTCCGAGGGGTGCTGGTC
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 GGCCATGAGGAATTGGTGCCTTGTATTGATTGATAACAAGAGGATAGTCAGTGGGGCC
 TATGATGGAATAAAGTGTGGGATCTTGTGGCTGCTTTGGACCCCGTCTCCTGCA
 GGGACACTCTGTCTACGGACCCTTGTGGAGCATTCCGGAAGAGTTTTTTCGACTACAGTTT
 GATGAATTCAGATTGTCAGTAGTTCACATGATGACACAATCCTCATCTGGGACTTCCTA
 AATGATCCAGCTGCCAAGCTGAACCCCCCGTCCCCTTCTCGAACATACACCTACATC
 TCCAGATAAATAACCATACACTGACCTCATACTTGCCCAGGACCCATTAAGTTGCGGTA
 TTTAACGTATCTGCCAATACCAGGATGAGCAACAACAGTAAACAACTAACTACTGCCAG
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 TGTCTTCTATCTTTTGTGAATGATTGGAACTTTTAAACCTCCCCTCCTCCTCCTTTTCA
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 GAATGTATACACTGGAAGATTTGGGCCTCCTGCCTGCCTTCTCTTTGTTTCTGTTCTCT
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 AAGTGTACGAAGAGAGTGTCTCCTCTCACATGAGCCAGATCAGCCAGAAAATGCAACAC
 TTGGAAGAGTTAAATGCTGTTTCAGTGAAGATTTACGCCCAGGCCTTTGCTGCAAGTGAC
 CCTGTGGCAACAGTGGATTCTCAGACATGATACTCTCATATTTGCAACTCTTCTCTC
 TCTTTCTCCCCACACCAAGAGGAGGATTGGTGGTAGGGGACAGCAGAGGGGGTGGGG
 AGAAGTTTCTGGGCTCCATCAATGGCTGCATTTTTCTGGACTCAGCAGTCTCCTTGAT
 TCCATGTAGAGTGTGAAAGGAGTTGCTGATTGCATTTCTCTCATTAAACAATTGGGTGT
 GTAATAAAAAGCATTGTACTTTCATCTTAAAAAATAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033637 unedited
 GCACATTTTGTAAATACGACTCACTATAGGGCGGCCGCAAATTCGCACGAGGCCCGGGCG
 GAGAGCGGACCCAGTGGCCTCGGCGATTATGGACCCGGCCGAGGCGGTGCTGCAAGAGAA
 GGCACCTCAAGTTTATGTGCTCTATGCCAGGTCTCTGTGGCTGGGCTGCTCCAGCCTGGC
 GGACAGCATGCCTTCGCTGCGATGCCTGTATAACCCAGGGACTGGCGCACTCACAGCTTT
 CCAGAATTCCTCAGAGAGAGAAGACTGTAAATGGCGAACCCCTAGGAAGATAATACC
 AGAGAAGAATTCACCTTAGACAGACATACAACAGCTGTGCCAGACTCTGCTTAAACCAAGA
 AACAGTATGTTTAGCAAGCACTGCTATGAAGACTGAGAATTGTGTGCCAAAACAAAAC
 TGCCAATGGCACTTCCAGTATGATTGTGCCAAGCAACGAAAACCTCTCAGCAAGCTATGA
 AAAGAAAAGGAACTGTGTGCAAACTTTGAGCAGTGGTCAGAGTCAGATCAAGTGGAA
 ATTTGTGGAACATCTTATATCCCAAATGTGTCATTACCAACATGGGCACATAAACTCGTA
 TCTTAAACCTATGTTGCAGAGAGATTTCACTAAGTCTCTGCCAGCTCGGGGATTGGATCA
 TATTGCTGAGAACATTCTGTCATACCTGGATGCCAAATCACTATGTGCTGCTGAACCTTGT
 GTGCAAGGAATGGTACCGAGTGACCTCTGATGGCATGCTGTGGAAGAAGCTTATCGAGAG
 AATGGTCAGGACAGATTCTCTGTGGAGAGCCTGGCAGAACGAAAAGGATGGGGACAGTA
 TTTATTCAAAAACAACCTCCTGACGGGAATGCNTCTCCCACTCTTNTATAGAGCACTTAT
 CCTAAAATATACCAGACATTGAGACATAGAATCTATGGNAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_033637 unedited
 CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAATGAAGTACAATGCTTTTTTATT
 ACACACCAATTGTTAATGAGAGGAAATGCAATCAGCAACTCCTTTCCACTCTACATG
 GAATCAAGGAGACTGCTGAGTCCAGAAAAGATGCAGCCATTGATGGAGCCAGGAAACTT
 CTCCCCACCCCTCTGCCTGCCCTACCACCAATCCTCCTCTTGGGTGTGGGGAAGAAA
 GAGAGAGAAGAGTTGCAATATGATGAGAGTATCATGTCTGAGAATCCACTGTTGCCACA
 GGGTCACTTGCAGCAAAGGCTGGGGCTGAAATCTTCACTGAACAGCATTTAACTCTTCC
 AAGTGTTCATTTTCTGGCTGATCTGGCTCATGTGAGAGGAGGACTCTCTTCGTACAC
 TTTCTTCTCAGGTGAAGCAGACAGAGAAAAAGGTTGAAGGGGCGTAGGGGAGTATATGG
 GAAGAGGAACAGAAAACAAGAGAAGGCAGGCAGGAGGCCCAAATCTTCCAGTGTATACAT
 TCTTGAGTTTTTCTTTTCTGTCCAGAGGCTATACAGAGGGAACCTGTCTCCTCCTAA
 GCATATTGAGGCTGGGCTGCTCTGGCCAGGTGCTTGGCATTCTGCAGTTAACAGGGAGA
 CACTGGGCACTGNGCTGAAGCTGCATCCCCATACCCTAGAAGTGGGTCTCTCCAGCA
 GCTATACAGGAAACTAGTTCTTCTGCTTAATGGCAATGCAGAGAGATCCTGGCAAACA
 CTAATATATCTATAAGTCACCTTTNGTCTGGACAATGGGNAATAACTTAGTGCCAAAGT
 AAAGAGGAAAAGAGGGAGGTTTAAAGTTCCATCATCCCAAAGAATAAGACTCTCCGAAA
 CAGCCTGAGCATCAGGTGGCTGATAAACGTCTGGGCGACTGANACTGGTCCAAAAGGT
 CCTAAGCCGCTCTCGCTTTCAGGAACTGCACTATTGTGCTCTGTGTGT

Restriction Sites:

NotI-NotI

ACCN:

NM_033637

Insert Size:

3270 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).

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_033637.2](#), [NP_378663.1](#)

RefSeq Size: 6146 bp

RefSeq ORF: 1818 bp

Locus ID: 8945

UniProt ID: [Q9Y297](#)

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 (1) represents the longest transcript and encodes the longest isoform (1).