

Product datasheet for **RG207025**

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:	TurboGFP
Symbol:	Beta TRCP
Synonyms:	BETA-TRCP; betaTrCP; bTrCP; bTrCP1; FBW1A; FBXW1; FBXW1A; FWD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207025 representing NM_033637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCCGGCCGAGGCGGTGCTGCAAGAGAAGGCACTCAAGTTTATGTGCTCTATGCCAGGTCTCTGT
 GGCTGGGCTGCTCCAGCCTGGCGGACAGCATGCCTTCGCTGCGATGCCTGTATAACCCAGGGACTGGCGC
 ACTCACAGCTTTCCAGAATTCCTCAGAGAGAGAAGACTGTAATAATGGCGAACCCCTAGGAAGATAATA
 CCAGAGAAGAATTCACCTAGACAGACATACAACAGCTGTGCCAGACTCTGCTTAAACCAAGAAACAGTAT
 GTTTAGCAAGCACTGCTATGAAGACTGAGAATTGTGTGGCCAAAACAAAACCTGCCAATGGCACTCCAG
 TATGATTGTGCCAAGCAACGAAACTCTCAGCAAGCTATGAAAAGGAAAAGGAAGTGTGTGCAAAATAC
 TTTGAGCAGTGGTCAGAGTCAGATCAAGTGAATTTGTGGAACATCTTATATCCCAATGTGTCATTACC
 AACATGGGCACATAAACTCGTATCTTAAACCTATGTTGCAGAGAGATTCATAACTGCTCTGCCAGCTCG
 GGGATTGGATCATATTGCTGAGAACATTCTGTCATACCTGGATGCCAAATCACTATGTGCTGCTGAAGTT
 GTGTGCAAGGAATGGTACCGAGTGACCTCTGATGGCATGCTGTGGAAGAAGCTTATCGAGAGAATGGTCA
 GGACAGATTCTCTGTGGAGAGGCCCTGGCAGAACGAAGAGGATGGGGACAGTATTTATTCAAAAACAAACC
 TCCTGACGGGAATGCTCCTCCAACTCTTTTTATAGAGCACTTTTCTCTAAAATTATACAAGACATTGAG
 ACAATAGAATCTAATTGGAGATGTGGAAGACATAGTTTACAGAGAATTCAGTCCGGAAGTAAAACAAGCA
 AAGGAGTTTACTGTTTACAGTATGATGATCAGAAAATAGTAAGCGGCCTTCGAGACAACACAATCAAGAT
 CTGGGATAAAAACACATTGGAATGCAAGCGAATTCACAGGCCATACAGGTTTCACTCTGTCTCCAG
 TATGATGAGAGAGTATCATAACAGGATCATCGGATTCACGGTCAGAGTGTGGGATGTAATACAGGTG
 AAATGCTAAACACGTTGATTCCACATTGTGAAGCAGTTCTGCACCTTGCCTTTCAATAATGGCATGATGGT
 GACCTGCTCCAAAGATCGTTCATTGCTGTATGGGATATGGCCTCCCAACTGACATTACCTCCGGAGG
 GTGCTGGTCCGACACCGAGCTGCTGTCAATGTTGTAGACTTTGATGACAAGTACATTGTTTCTGCATCTG
 GGGATAGAACTATAAAGGTATGGAACACAAGTACTTGTGAATTTGTAAGGACCTTAAATGGACACAAACG
 AGGCATTGCCTGTTTGCAGTACAGGGACAGGCTGGTAGTGAGTGGCTCATCTGACAACACTATCAGATTA
 TGGGACATAGAATGTGGTGCATGTTTACGAGTGTAGAAGGCCATGAGGAATTTGGTGCCTGTTATTCGAT
 TTGATAACAAGAGGATAGTCAGTGGGCTATGATGGAAAATTAAGTGTGGGATCTTGTGGCTGCTTT
 GGACCCCGTGTCTCTGCAGGGACTCTGTCTACGGACCCTTGTGGAGCATTCCGGAAGAGTTTTTCGA
 CTACAGTTTGATGAATTCAGATTGTGAGTACATGATGACACAATCCTCATCTGGGACTTCTCTAA
 ATGATCCAGCTGCCAAGCTGAACCCCGCTTCCCTTCTCGAACATACACTACATCTCCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207025 representing NM_033637
 Red=Cloning site Green=Tags(s)

MDPAEAVLQEKALKFMCSMPRSLWLGCSLADSMPSLRCLYNPGTGALTAFAQNSSEREDCNNGEPPrkII
 PEKNSLRQTYNSCARLCLNQETVCLASTAMKTENCVAKTKLANGTSSMIVPKQRKLSASYEKEKELCVKY
 FEQWSESDQVEFVEHLISQMCHYQHGHIINSYLPMLQRDFITALPARGLDHAENILSYLDAKSLCAAEL
 VCKEYWRVTS DGMLWKKLIERMVRTDSLWRGLAERRGWGQYLFKNKPPDGNAPPNSFYRALYPKIIQDIE
 TIESNWRCGRHSLQRIHCRSETS KGVYCLQYDDQKIVSGLRDNTIKIWDKNTLECKRILTGHTGSVLCLO
 YDERVITGSSDSTVRVVDVNTGEMLNTLIHHC EAVLHLRFNNGMMVTC SKDRSIAVWDMASPTDITLRR
 VLVGHRAAVNVDFDDKIVYSASGDRITIKVWNTSTCEFVRTLNHGKRGIAQLQYRDRLVVS GSSDNTIRL
 WDIECGACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLVAALDPRAPAGTLCLRTLVEHSGRVFR
 LQFDEFQIVSSSHDDTILIWDFLNDPAAQAEPPrSPSRTYTISR

TRTRPLE – GFP Tag – V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_033637.4](#)

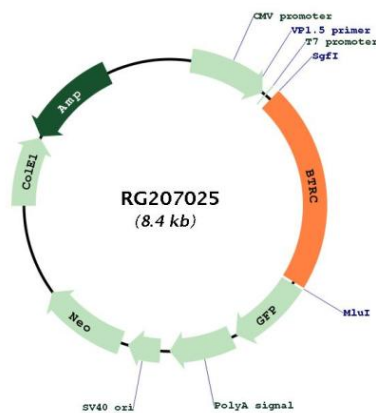
RefSeq Size: 6146 bp

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
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG207025