

Product datasheet for **RG221110**

beta TRCP2 (FBXW11) (NM_033645) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta TRCP2 (FBXW11) (NM_033645) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBXW11
Synonyms:	BTRC2; BTRCP2; FBW1B; Fbw11; FBXW1B; Hos; NEDJED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221110 representing NM_033645
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGACTCGGTGATTGAGGACAAGACCATCGAGCTCATGATAAGTAATGGAACATCATCTGTGA
 TCGTCTCCAGAAAGAGGCCATCAGAAGGAACTATCAAAAAGAAAAGACTTGTGTATTAATATTTTGA
 CCAGTGGTCTGAATCAGATCAAGTGAATTTGTGGAACATCTTATTTACGAATGTGTCATTATCAGCAT
 GGACATATTAACCTTACCTGAAGCCCAGTTTGCAGCGGGACTTTATTACCGCTTACCAGAGCAAGGCT
 TAGATCACATAGCAGAAAACATTCTTTCTGACCTGGATGCCAGGTCTCTGTGTCAGCAGAGCTGGTATG
 TAAAGAATGCGAGCGAGTGATCTCAGAAGGAATGCTTTGGAAGAAGCTGATTGAACGAATGGTACGCACT
 GATCCCCTATGGAAGGACTTTAGAAAAGAAGAGGGTGGGATCAGTACCTGTTTAAAAACAGACCCACAG
 ATGGCCCTCCAAATTCATTTATAGTTCATTATACCCAAAGATTATCCAGGATATAGAGACTATAGAATC
 TAACTGGCGGTGTGGACGACACAACCTTGCAGAGGATTCAGTGGCCTCTGAAAATAGTAAAGGTGTCTAC
 TGTTTACAGTACGATGATGAAAAAATTACAGTGGCCTACGAGATAATTCTATTAAGATATGGGATAAAA
 CCAGCCTGGAATGTTTGAAGTGTAAACAGGACACACAGGCTCTGTCTCTGTCTGCAGTATGATGAGCG
 TGTCAATTGTAACCTGCTTTCAGATTCTACGGTGAAGTGTGGGATGTGAACACGGGTGAAGTTCTTAAC
 ACATTGATCCACCACAATGAGGCTGATTGCACTTACGCTTACGCAATGGACTGATGGTACCTGTTCCA
 AGGACCGCTCCATTGCTGTGTGGGACATGGCTTCTGCGACCGACATCACTTTACGCCGTGCTCGTTGG
 CCACCGGGCTGCCGTCAATGTAGTAGACTTTGACGACAAGTACATCGTGTCTGCCTCTGGTGACAGGACC
 ATCAAAGTCTGGAGCACGACACCTGTGAATTTGTTCTGACTCTCAATGGGCACAAGCGGGCATTGCCT
 GTCTCCAGTACAGGGATCGCCTGGTTGTTAGTGGATCATCAGATAATACCATTAGGCTCTGGGATTTGA
 ATGTGGTGCCTGTTTAAAGATCCTAGAGGGACATGAAGAATTGGTCCGATGCATCCGGTTTGATAACAAG
 AGGATTGTCAGTGGGCTATGATGGGAAAATTAAGTTTGGGACTTGAAGCTGCTCTTGACCCTCGAG
 CCCCAGCAAGCACATTGTGTTTGCACACATTGGTGAACATTCTGGACGTGTGTTTCCGGTCCAGTTTGA
 TGAGTTTTCAGATCATCAGCAGCTCCATGATGACACTATTTGATTTGGGATTTCTTAAATGTGCCTCCC
 AGTGCCCAAGATGAGACCGTTCTCCCTCCAGAACATACACTTACATCTCTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221110 representing NM_033645
 Red=Cloning site Green=Tags(s)

MEPDSVIEDKTIELMISNGTSSVIVSRKRPSEGNVQKEKDLCKIKYFDQWSESDQVEFVEHLISRMCHYQH
 GHINSYLKPMQLQRDFITALPEQGLDHIAENILSYLDARSLCAAELVCKEWQRVISEGMLWKKLIERMVRT
 DPLWKGLSERRGWDQYLFKNRPTDGPNSFYRSLYPKIIQDIETIESNWRCCRHLNQRVQCRSENSKGVY
 CLQYDDEKIIISGLRDNSIKIWDKTSLECLKVLTGHTGSVLCQYDERVIVTGSSDSTVRVWVDVNTGEVLN
 TLIHNEAVLHLRFNGLMVTCSKDRSIAVWDMASATDITLRRVLVGHRAAVNVVDFDDKYIVSASGDR
 IKVWSTSTCEFVRTLNGHKRGIACLQYRDRLVVSAGSSDNTIRLWDIECGACLRVLEEGHEELVRCIRFDNK
 RIVSGAYDGKIKVWDLQAALDPRAPASTLCLRTLVEHSGRVFRLQFDEFQIISSSHDDTILIWDFLNVPP
 SAQNETRSPSRITYYISR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI
BamHI *KpnI*
RBS
Kozac
Consensus
SgfI
AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

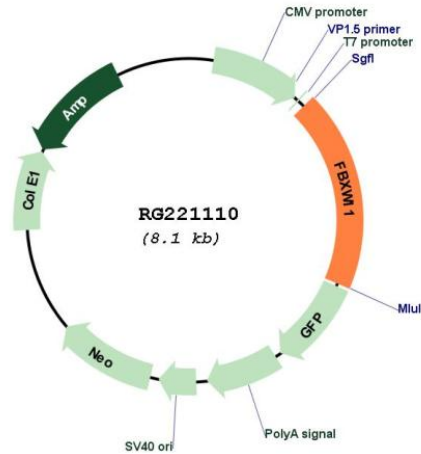
HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI
FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - - E E R V Stop

Plasmid Map:



ACCN: NM_033645

ORF Size: 1524 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_033645.3
RefSeq Size:	4473 bp
RefSeq ORF:	1527 bp
Locus ID:	23291
UniProt ID:	Q9UKB1
Cytogenetics:	5q35.1
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 and, in addition to an F-box, contains multiple WD40 repeats. This gene contains at least 14 exons, and its alternative splicing generates 3 transcript variants diverging at the presence/absence of two alternate exons. [provided by RefSeq, Jul 2008]</p>