

## Product datasheet for **RG210500**

### **FBXO2 (NM\_012168) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO2 (NM_012168) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBXO2
Synonyms:	FBG1; Fbs1; FBX2; NFB42; OCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210500 representing NM_012168 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGGAGACGGTGACCCAGAGAGCGTGGGCCAGCCGAGGAGGCAAGCCGGAGGAGCAGCCAGAGG  
AGGCGAGTGCTGAGGAGGAGCGGCCGAGGACCAGCAGGAGGAGGAGGCGGCCGCGCCGCGTACCT  
GGACGAGCTGCCGAGCCGCTGCTGCTGCGCGTGTGGCCGCACTGCCGGCCGCGAGCTGGTGCAGGCC  
TGCCGCTGGTGTGCCTGCGCTGGAAGGAGCTGGTGGACGGCGCCCGCTGTGGTGTCTCAAGTCCAGC  
AGGAGGGGCTGGTCCCGAGGGCGCGTGGAGGAGGAGCGGACCACTGGCAGCAGTTCTACTTCCTGAG  
CAAGCGGCGCCGCAACCTTCTGCGTAACCCGTGTGGGGAAGAGGACTTGAAGGCTGGTGTGACGTGGAG  
CATGGTGGGACGGCTGGAGGGTGGAGGAGCTGCCTGGAGACAGTGGGGTGGAGTTCACCCACGATGAGA  
GCGTCAAGAAGTACTTCGCCTCCTTTGAGTGGTGTGCGAAAGCACAGGTCAATTGACCTGCAGGCTGA  
GGGCTACTGGGAGGAGCTGCTGGACAGCACTCAGCCGGCCATCGTGGTGAAGGACTGGTACTCGGGCCG  
AGCGACGCTGGTGCCTTACGAGCTCACCGTTAAGCTACTGTCCGAGCACGAGAACGTGCTGGCTGAGT  
TCAGCAGCGGGCAGGTGGCAGTGCCCAAGACAGTGACGGCGGGGGCTGGATGGAGATCTCCACACCTT  
CACCGACTACGGGCCGGGCGTCCGCTTCGTCCGCTTCGAGCACGGGGGGCAGGACTCCGTCTACTGGAAG  
GGCTGGTTCGGGGCCCGGGTGACCAACAGCAGCGTGTGGGTAGAACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210500 representing NM\_012168  
 Red=Cloning site Green=Tags(s)

MDGDGDPESVQPEEASPEEQPEEASAEERPEDQQEEEEAAAAAYLDELPEPLLLRVLAALPAELVQA  
 CRLVCLRWKELVDGAPLWLLKCQEQGLVPEGVVEERDHWQQFYFLSKRRRNLRLNPGCEEDLEGWCDVE  
 HGGDGRVVEELPGDSGVEFTHDESVKKYFASSFECRKAQVIDLQAEGYWEELDTTQPAIVVKDWYSGR  
 SDAGCLYELTVKLLSEHENVLAEFSSGQVAVPQSDGGGWMEISHTFTDYGPGVRFVRFHEGGQDSVYWK  
 GWFGARVTNSSVWVEP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012168

**ORF Size:** 888 bp

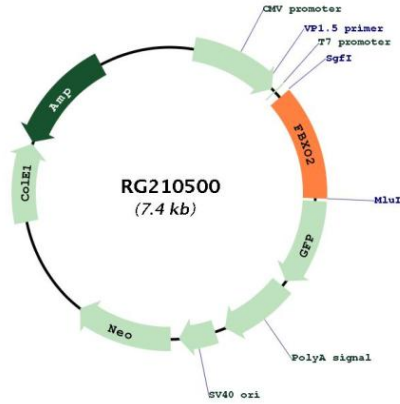
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012168.6</a>
<b>RefSeq Size:</b>	1551 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	26232
<b>UniProt ID:</b>	<a href="#">Q9UK22</a>
<b>Cytogenetics:</b>	1p36.22
<b>Domains:</b>	F-box, FBA
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<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 the 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 Fbxs class. This protein is highly similar to the rat NFB42 (neural F Box 42 kDa) protein which is enriched in the nervous system and may play a role in maintaining neurons in a postmitotic state. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG210500