

## Product datasheet for **RG237760**

### **FBXO31 (NM\_001282683) Human Tagged ORF Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | FBXO31 (NM_001282683) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP   |
| Symbol:                   | FBXO31   |
| Synonyms:                 | FBX14; Fbx31; FBXO14; MRT45; pp2386  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG237760 representing NM_001282683.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTACCTGCCTCCCATGACCCACAGTCGATGACCCTATGAGATTCAAGCCTCTGTTCAGGATCCAC
CTGATGGAGAGGAAGGCTGCCACAGTGGAGTGCATGTACGGCCACAAAGGGCCCCACCACGGCCACATC
CAGATTGTGAAGAAGGATGAGTTCTCCACCAAGTGCAACCAGACGGACCACCACAGGATGTCGGCGGG
AGGCAGGAGGAGTTTCGGACGTGGCTGAGGGAGGAATGGGGCGCACGCTGGAGGACATCTCCACGAG
CACATGCAGGAGCTCATCTGATGAAGTTCATCTACACCAGTCAGTACGACAACCTGCCTGACCTACCGC
CGCATCTACCTGCCGCCAGCCGCCGACGACCTCATCAAGCCTGGCCTCTTCAAAGGTACCTATGGC
AGCCACGGCTGGAGATTGTGATGCTCAGCTTCCACGGCCGGCGTCCAGGGGCACCAAGATCACGGGC
GACCCCAACATCCCCGCTGGGCAGCAGACAGTGGAGATCGACCTGAGGCATCGGATCCAGCTGCCCGAC
CTCGAGAACCAGCGCAACTTCAATGAGCTCTCCCGCATCGTCTGGAGGTGCGCGAGAGGGTGCGCCAG
GAGCAGCAGGAAGGCGGGCAGGAGGCGGGCAGGGTCTGTGGCCGAGGGCCCCGGGAGTCCCAGCCA
AGCCCTGCCAGCCAGGGCAGAGGCGCCAGCAAGGGCCAGATGGGACACCTGGTGAGGATGGTGGC
GAGCCTGGGGATGCCGTAGCTGCGGCCGAGCAGCTGCCAGTGTGGCAGGGGCAGCCGTTTCGTGCTG
CCCGTGGCGTGAGCTCCAGGAATGAGGACTACCCCGAACCTGCAGGATGTGTTTTATGGCACAGGC
CTCATCGGGCCACGGCTTACCAGCCCTGAACGCACCCCGGGTCTTCATCTTTCGATGAGGAC
CGCTTCGGGTTCGTCTGGCTGGAGCTGAAATCCTTCAGCCTGTACAGCCGGTCCAGGCCACCTTCGG
AACGCAGATGCGCCGTCCCCACAGGCCTTCGATGAGATGTCAAGAACATTTCAGTCCCTCACCTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237760  
 Blue=ORF Red=Cloning site Green=Tag(s)

MYLPPHDPHVDDPMRFKPLFRIHLMERKAATVECMYGHKGPHHGHIQIVKKDEFSTKCNQTDHHRMSGG  
 RQEEFRTLREEWGRTLEDIFHEHMQLILMKFIYTSQYDNCLTYRRIYLPPSRPDDLKPGLFKGTYG  
 SHGLEIVMLSFHGRRRARGTKITGDPNIPAGQQTVEIDL RHRIQLPDLENQRNFNLSRIVLEVRERVRQ  
 EQQEGGHEAGEGRGRQGPRESQPSPAQPRAEAPSKGPDGTPGEDGGEPDAVAAAQPAQCGQGQPFVL  
 PVGVSSRNEDYPRTRCRMCFYGTGLIAGHGFTSPERTPGVFI LFD EDRFGFVWLELKSFSLYSRVQATFR  
 NADAPSPQAFDEMLKNIQSLTS  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282683

**ORF Size:** 1101 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).

**RefSeq:** [NM\\_001282683.2](#)

**RefSeq Size:** 5738 bp

RefSeq ORF: 1104 bp

Locus ID: 79791

UniProt ID: [Q5XUX0](#)

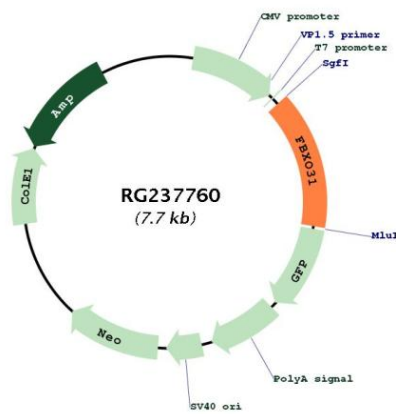
Cytogenetics: 16q24.2

Protein Families: Druggable Genome

MW: 42.2 kDa

**Gene Summary:** This gene is a member of the F-box family. Members are classified into three classes according to the substrate interaction domain, FBW for WD40 repeats, FBL for leucine-rich repeats, and FBXO for other domains. This protein, classified into the last category because of the lack of a recognizable substrate binding domain, has been proposed to be a component of the SCF ubiquitination complex. It is thought to bind and recruit substrate for ubiquitination and degradation. This protein may have a role in regulating the cell cycle as well as dendrite growth and neuronal migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

### Product images:



Circular map for RG237760