

## Product datasheet for **RG208817**

### **FBXL4 (NM\_012160) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FBXL4 (NM_012160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBXL4
Synonyms:	FBL4; FBL5; MTDPS13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG208817 representing NM\_012160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCACCGGTCTTTCCCATGTTAACAGTCTGACCATGTTTTATTATATATGCCTTCGGCGCCGAGCCA  
 GGACAGCTACAAGAGGAGAAATGATGAACACCCATAGAGCTATAGAATCAAACAGCCAGACTTCCCCTCT  
 CAATGCAGAGGTAGTCCAGTATGCCAAAGAAGTAGTGGATTTCCAGTTCCATTATGGAAGTGAGAATAGT  
 ATGTCCTATACTATGTGGAATTTGGCTGGTGTACCAATGTATTCCCAAGTCTGGTGACTTTACTCAGA  
 CAGCTGTGTTTCGAACTTATGGGACATGGTGGGATCAGTGTCTAGTGTCTCCTTGCCATTCAAGAGGAC  
 GCCACCTAATTTTCAGAGCCAGGACTATGTGGAAGTACTTTTGAACAACAGGTGTATCCTACAGCTGTA  
 CATGTTCTAGAAACCTATCATCCCGAGCAGTCATTAGAATTCTCGTGTGTTCTGCAAACTCTTATTCCC  
 CAAATCCACCAGCTGAAGTAAGATGGGAGATTCTTTGGTCAGAGAGACCTACGAAGGTGAATGCTTCCCA  
 AGCTCGCCAGTTAAACCTTGATTAAGCAGATAAATTTCCACAAATCTTATACGACTGGAAGTAAAT  
 AGTTCTCTTCTGGAATATTACACTGAATTAGATGCAGTTGTGCTACATGGTGTGAAGGACAAGCCAGTGC  
 TTTCTCTCAAGACTTCACCTATTGACATGAATGATATAGAAGATGATGCCTATGCAGAAAAGGATGGTTG  
 TGGAAATGGACAGTCTTAACAAAAGTTTAGCAGTGTCTCCTCGGGGAAGGGCAAATAATGGGTATTTT  
 GATAAACTACCTTATGAGCTTATCAGCTGATTCTGAATCATCTTACACTACCAGACCTGTGTAGATTAG  
 CACAGACTTGCAAACACTGAGCCAGCATTGCTGTGATCCTCTGCAATACATCCACCTCAATCTGCAACC  
 ATACTGGGCAAACTAGATGACACTTCTCTGGAATTTCTACAGTCTCGCTGCACTTGTCCAGTGGCTT  
 AATTTATCTTGGACTGGCAATAGAGGCTCATCTCTGTCAGGATTTAGCAGGTTTCTGAAGGTTTGTG  
 GATCCGAATTAGTACGCCTGAATTGTCTTGCAGCCACTTCTTAATGAAACTTGCTTAGAAGTTATTTT  
 TGAGATGTGTCCAAATCTACAGGCCTAAATCTCTCCTCTGTGATAAGCTACCACCTCAAGCTTCAAC  
 CACATTGCCAAGTTATGCAGCCTTAAACGACTTGTCTCTATCGAACAAAAGTAGAGCAAACAGCACTGC  
 TCAGCATTTTGAAGTCTGTTTCCAGAGCTTCCAGCACCTCAGTTTAGGCAGTTGTGTCATGATTGAAGACTA  
 TGATGTGATAGCTAGCATGATAGGAGCCAAGTGTAAAAAATCCGGACCCTGGATCTGTGGAGATGTAAG  
 AATATTACTGAGAATGGAATAGCAGAAGTGGCTTCTGGGTGTCCACTACTGGAGGAGCTTGACCTTGGCT  
 GGTGCCAACTCTGCAGAGCAGCACCGGGTGTTCACCAGACTGGCACACCAGCTCCCAAACCTGCAAAA  
 ACTCTTTCTTACAGCTAATAGATCTGTGTGACACAGACATTGATGAATTGGCATGTAATTGTACCAGG  
 TTACAGCAGCTGGACATATTAGGAACAAGATGGTAAGTCCGGCATCCTTAAGAAAACCTCTGGAATCTT  
 GTAAGATCTTTCTTACTTGTGTGTCCTTCTGTTCCGAGATTGATAACAGAGCTGTGCTAGAAGTAA  
 TGCAAGCTTTCCAAAAGTGTTCATAAAAAAGAGCTTTACTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208817 representing NM\_012160  
 Red=Cloning site Green=Tags(s)

MSPVFPMLTVLTMFYIICLRRRARTATRGEMNTHRAIESNSQTSPLNAEVVQYAKEVVDVSSHYSSENS  
 MSYTMWNLAGVPNVFPSSGDFQTAVFRTYGTWWDQCPSASLPFKRTPPNFQSQDYVELTFEQVYPTAV  
 HVLETYHPGAVIRILACSANPSPNPPAEVRWEILWSERPTKVNASQARQFKPCIKQINFPTNLIRLEVN  
 SSLLEYTELDAVVLHGVDKPVLSLKTSLIDMNDIEDDAYAEKDGCGMDSLNNKFSSAVLGEPPNNGYF  
 DKLPYELIQLILNHLTLPDLCRLAQTCKLLSQHCCDPLQYIHLNLQPYWAKLDDTSLFLQSRCTLVQWL  
 NLSWTGNRGI SVAGFSRFLKVCSELVRELESCSHFLNETCLEVISEMCPNLQALNLSLCKLPPQAFN  
 HIAKLCSLKRLVLYRTRKVEQTALLSILNFCSELQHL SLGSCVMIEDYDVIASMI GAKCKLRLDLWRCK  
 NITENGAELASGCPLLEELDLGWCPQLQSSTGCFRLAHQLPNLQKFLTANRVSVDTDIDELACNCTR  
 LQLDLIGTRMVSASLRKLLSCKDLSLLDVSFCSQIDNRAVLELNASFPKVFIKKSFTQ

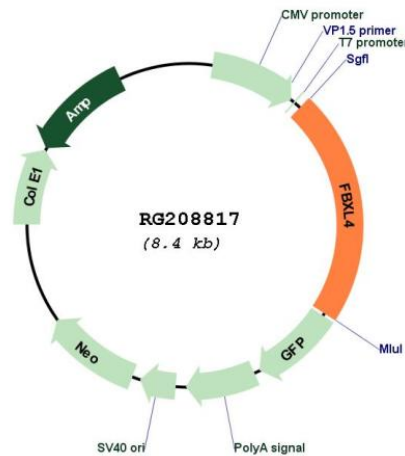
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


ACCN:                      NM\_012160  
 ORF Size:                  1863 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

**RefSeq:** [NM\\_012160.4](#)

**RefSeq Size:** 2777 bp

**RefSeq ORF:** 1866 bp

**Locus ID:** 26235

**UniProt ID:** [Q9UKA2](#)

**Cytogenetics:** 6q16.1-q16.2

**Domains:** LRR, F-box, LRR\_CC

**Protein Families:** Druggable Genome

**Gene Summary:**

This gene encodes a member of the F-box protein family, which are characterized by an approximately 40 amino acid motif, the F-box. F-box proteins constitute one subunit of modular E3 ubiquitin ligase complexes, called SCF complexes, which function in phosphorylation-dependent ubiquitination. The F-box domain mediates protein-protein interactions and binds directly to S-phase kinase-associated protein 1. In addition to an F-box domain, the encoded protein contains at least 9 tandem leucine-rich repeats. The ubiquitin ligase complex containing the encoded protein may function in cell-cycle control by regulating levels of lysine-specific demethylase 4A. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]