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Product datasheet for MG204114

Fbxo2 (NM_176848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo2 (NM_176848) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbxo2
Synonyms:	FBG1; Fbs1; Fbs2; FBX2; NFB42; Prpl4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204114 representing NM_176848
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGGAGATGGTGATCCAGAGAGTGTGAGCCACCCCGAAGAAGCGAGCCCAGAGGAGCAGCCAGAGG
AGGCGGGCGCCGAGGCGAGTGCGGAGGAGGAGCAGCTCCGGGAGGCGGAGGAGGAGGAAGAGGCGGAGGC
CGTGGAGTACCTGGCCGAGCTGCCGGAGCCACTGCTGCTGCGCGTGCTGGCCGAGCTGCCAGCTACGGAG
CTGGTGCAGGCCTGCCGCCTGGTGTGCCTGCGCTGGAAGGAGCTGGTGGACGGCGCCCCACTGTGGCTGC
TCAAGTGCCAGCAGGAGGGGCTGGTGCCCGAGGGCAGCGCTGATGAGGAGCGGGACCACTGGCAACAGTT
CTACTTTCTGAGCAAGAGGAGGCGCAACCTGCTGCGCAACCCTTGTGGGGAAGAGGACTTGGAGGGCTGG
AGCGACGTGGAGCACGGTGGGGACGGCTGGAGGGTGGAGGAACTGCCCGGAGACAATGGGGTGGAATTTA
CCCAAGATGACAGCGTTAAGAAATACTTCGCCTCCTCCTTCGAGTGGTGTCGCAAAGCGCAGGTCATTGA
TCTGCAGGCAGAGGGCTACTGGGAGGAGCTACTGGACACCACCCAGCCCGCCATCGTGGTGAAGGACTGG
TACTCGGGTCGCACTGATGCGGGCAGCCTGTATGAGCTCACTGTGAGGCTGCTGTCGGAGAACGAAGATG
TGCTGGCGGAGTTCGCTACAGGACAGGTGGCTGTGCCAGAGGACGGCAGTTGGATGGAGATCTCCCACAC
CTTCATCGACTACGGGCCAGGTGTCCGCTTTGTCCGCTTCGAGCACGGAGGGCAGGACTCGGTCTACTGG
AAGGGCTGGTTCGGGGCCCGGGTGACCAACAGTAGCGTGTGGGTGGAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

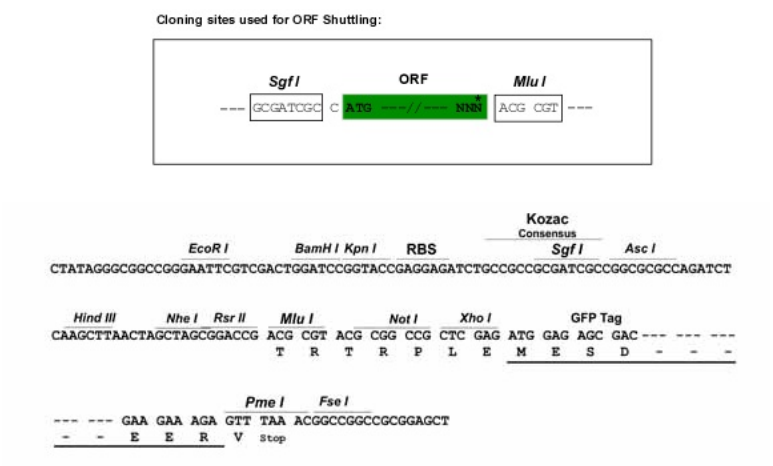
>MG204114 representing NM_176848
Red=Cloning site Green=Tags(s)

MDGDGDPESVSHPEEASPEEQPEEAGAEASAEEEQLREAEEEEEAEAVEYLAELPEPLLLRVLAELPATE
LVQACRLVCLRWKELVDGAPLWLLKCQQEGLVPEGSADEERDHWQQFYFLSKRRRNLLRNPCGEEDLEGW
SDVEHGGDGWRVEELPGDNGVEFTQDDSVKKYFASSFEWCRKAQVIDLQAEGYWEELLDTTQPAIVVKDW
YSGRTDAGSLYELTVRLLSENEDVLAEFATGQVAVPEDGSWMEISHTFIDYGPGVRFVRFEHGGQDSVYW
KGWFGARVTNSSVWVEP

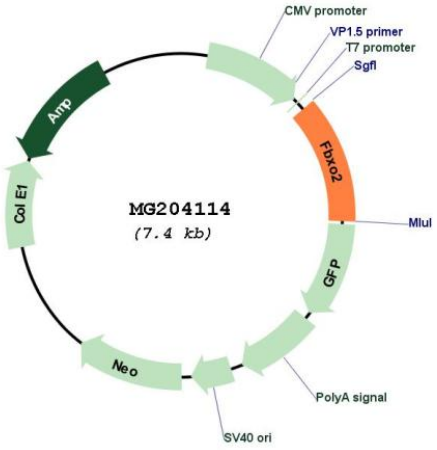
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_176848

ORF Size: 891 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.
RefSeq:	NM_176848.1, NP_789818.1
RefSeq Size:	1260 bp
RefSeq ORF:	894 bp
Locus ID:	230904
UniProt ID:	Q80UW2
Cytogenetics:	4 78.68 cM
Gene Summary:	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Involved in the endoplasmic reticulum-associated degradation pathway (ERAD) for misfolded lumenal proteins by recognizing and binding sugar chains on unfolded glycoproteins that are retrotranslocated into the cytosol and promoting their ubiquitination and subsequent degradation. Prevents formation of cytosolic aggregates of unfolded glycoproteins that have been retrotranslocated into the cytosol. Able to recognize and bind denatured glycoproteins, preferentially those of the high-mannose type.[UniProtKB/Swiss-Prot Function]