

Product datasheet for **MG208381**

Fbxo7 (NM_153195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo7 (NM_153195) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbxo7
Synonyms:	2410015K21Rik; A230052G17Rik; AI117679; AW260462; C85118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208381 representing NM_153195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTGCGCGTGC GGCTTCAGAAGCGGACCCAGCCGCTCGAGGTGCCGGAGTCGGAGCCAACGCTCG
 GGCAGCTGCGCGGCACCTCAGCCAGGTCTGCTGCCACGTTGGGGTTCAAGTTCGATACCCGATTTC
 AATTACATTGAACAACAAGGATGCCCTCACTGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCT
 GGGGACTTGATATGTTTGGTTCTTGAAGATGACATGCCGGCACCTAACTACCTTCATCTACAGATACAG
 AGCATTCTCACTCCAGGATAATGACCAACCTTCTTGGCTGCCACCCCAAGTCAGACTAACATCCAGAG
 TGAACAAGGGACTGATTCATCCCAAGGACAGGCCACCCATTTGATGCCTGGACTGATGACAGTATGGAA
 GGGCTAGTCAAATGTTGAAGCTGAGTCAATTCAGGATGCCATGAGTATGGAAGAGGTTTCTGGTTTCC
 ATCCATTGGAACCAATGCTCTGTAATGAAACAGAGGATGGCAGGTACCACATTCTTAGAGACCCTGTA
 CCAGTCAGCTGGCTGCTCCAACATCAGTATGCCTTGATAGTGTGGTGCATCTCCTGATGCTCGAGTCA
 GGCTACATTCTCAGGGAAGTCAAACAAAGCAGTGACAATGCCTGAGAATTGGAAGTCAAGTGGTGTAT
 ACAAACGTCAGTACACACATCCTCTCTGCGAGGGCGGCTTTGCCGTGCTTACCTGTGTGCCTTTGGGAAA
 CTTAATCATTATAAATGCTACAATAAAAGTCAACGGTGGGATTAACGTCAGTGCAGCTGCAG
 CCAGGATCCTACGTTGCTGCTGGAGTAGAACAGGGGAAAGCGCAGCCAAAGTGTACAAAGATCTTAAGA
 AGCTCTCTCGTCTCTTCAAAGACCAGCTGGTGTACCCTCTTCTGGCTTTCACACGGCAAGTACTGAACCT
 TCCAGATGTGTTGGGCTGGTGTCCCTTCCACTGGAGTGAACACTACGCATCTCCGACTTTTGGATGTT
 CATTCTGCTCCTGGCCCTGTCTGCAGTCTGTGCATGACCTCCTCATTGCGTCAAATGACCCACTGCTGTGA
 GGTGTTGTATCTGCGGGATTTTCGAGATGGCACTGTGACAGGTCCTGACACAGACTGGAAGAATTGTA
 TAGAAAGAAGCACATACAAAGAAAAGAGGCTCAGAGGATGCGGCATGCAATGTTCTTACCATCAGCCAC
 CCTATCCATTTTGTCCATTCCCGTCTACCCAGGGCCTACCTTCCACCTCGTGTCTCCTCCAGGAA
 TCATTGGTGGTGAATATGATGAGAGGCCGATACTGCCTAGTGTGGGGACCCAGTCACCTCACTTATCCC
 AAGGCCCGGGAGCTTCTGGTCACTCCGTCCTCAGACCAGTCTTGGACCCTGTTGACCCACTTCCA
 GGACCTCACTCCCTTGTCCAGGAAGAGCTATCCCAACAACAGATTTCCCTTACAGCCCGCAGGGGTA
 GGTGAGCTGACAGCCGGCTGCCATTCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208381 representing NM_153195
 Red=Cloning site Green=Tags(s)

MKLRVRLQKRTQPLEVPESEPTLGQLRAHLSQVLLPTLGFSSDTRFAITLNNKDALTGDEETLASYGIVS
 GDLIICLVLEDDMPAPNLPSSTDTEHSSLQDNDQPSLAATPSQTNIPEQGTDSSQQAATPFDAWDDSM
 GPSQNVEAESIQDAMSMEEVSGFHLEPMLCNETEDGQVPHSLETLYQSAGCSNISDALIVLVHLLMLES
 GYIPQGTETKAVTMPENWKSSGVYKLYTHPLCEGGFAVLTCPVPLGNLIIINATIKVNGGIKNVKSQVLQ
 PGSYVAAGVEPGESAAYKDLKLSRLFKDQLVYPLLAFTTRQVLNLPDVFGLVVLPLELKLRIFRLLDV
 HSVLALSAVCHDLLIASNDPLLWRCLYLRDFRDGTVRGPDTDWKELYRKKHIQRKEAQRMRHAMFLPSAH
 PIPFCPIPVPYPRAYLPTSLPPGIIGGEYDERPILPSVGDVPTSLIPRPGELPGQFRPLRPRFDPVDPLP
 GPHSLLPGRAIPNNRFPFRPGRGRSADSRLPFL

TRTRPLE - GFP Tag - V

Restriction Sites:

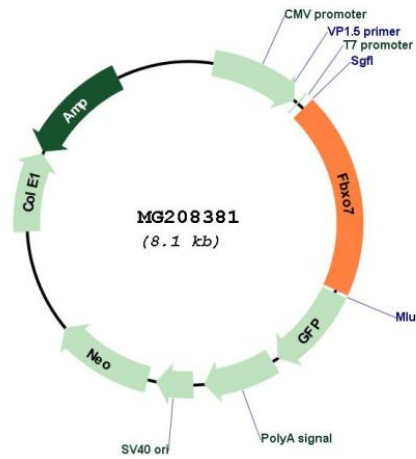
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_153195
ORF Size:	1569 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_153195.1
RefSeq Size:	1886 bp
RefSeq ORF:	1572 bp
Locus ID:	69754
UniProt ID:	Q3U7U3
Cytogenetics:	10 C1
Gene Summary:	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes BIRC2 and DLGAP5. Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination (By similarity). [UniProtKB/Swiss-Prot Function]