

Product datasheet for **MG223717**

Fbxw8 (NM_172721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxw8 (NM_172721) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbxw8
Synonyms:	4930438M06Rik; FBW6; FBW8; Fbx29; FBXO29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223717 representing NM_172721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGACCACAACCTGGAGGAGTTCGCCGGCACTGGCAGGAGGAGTTGGCGCAGTCACAGGCGCTGA
 GGCACGCGCGCGCTCGAGGCTGGGGAGCGCGGTCCGCCGAAGGCCGAGGCCGGAGCGCAGGCGA
 GCCGGCTCGGGCTACCTGGGGCTGGCGCAGGGGCTGCTGGAGGGCGCGGCCGACCCCCGGCGCCAGG
 CCTGGCCGGGAGGCGACAGGAAGGATACGTCCAGCCGATCGCGCTCACCCAGACCGCGACGCCACGG
 AGCCCCAGCCGCTGGTGGATCAGCTCATCCGCGACTTGAATGAGCTGGATGACGTGCCCTCTTTGATGT
 CCGTCTGCCTTACGAAGTGGCCATCAATATATTCCAGTATCTGAACAGAAGAGAGCTGGGACTGTGTGT
 CAGGTGAGCAAGACATGGAAGGTGATTGCTGAAGACGAGGTGCTGTGGTACCGGCTGTGCCACAGGAGG
 GGCACCTTCCCCACAGCAGATCCTCCGATTACACCTGCTGGAAGCTCATCTTGAAGAGTGCCTCGCCAA
 GGAGCACACATTAAGAGCCAACCTGGAAGAATCGCAAAGGTGCCGTGAGCGAGCTGGAGCATGTTCCCGAC
 GCTGTTTTGTGTGACGTGCGTTCTCACGATGGTGTGGTATTGCTGGATACACGTACAGGGATGTGCGGG
 TGTGGGACACCCGCACCTGGGACTACGTGGCCCCCTTCTGGAGTCTGAGTCTGAGGAGGAGGATCCTGG
 AATGCAGCCATATGTCTCCTTTGTGAGGATCAACAGCTCGCTGGCAGTGGCGGCTTACGAGGATGGGATC
 CTTAACATTTGGGACCTGAGAACCAGGAGTTCCTATCTTTGTTTTGAGCATGACGCAAGAATAACAAG
 CCCTTGCCTGAGCCAAGAAAAGCCATTGTTGCCACGGCTTCTGCTTTTACGTTGTGATGTTGTACCC
 CAACGAGGAGGGGCTGGCATGTGGCTCGGAGTTTGAAGTTCAGAAGCTGGTTGACTACCTTGAATA
 GTTCCGAATACTGGGAGTACCCTGTGGCAATAGCCACAGCCGGGATCTGGTGTACCTGCTGAAGGCCA
 ACGACTCAGCCAGAACCCTTCAATATGTCTATGGCCAGCCTGCCACATGTCTGGATGTCTCAGCCAGCCA
 GGTTGCCTTTGGAGTGAAGAGTCTGGGATGGGTGTATGAAGGAAACAAGATCCTGGTGTACAGCCTGGAA
 GCAGAGCGCTGCCTCTCGAAGCTGGCAATGCACTTGGAGACTTTACCTGTGTAACATCCGGGATAGCC
 CTCCAACCTCATGGTACGCGCAACATGGACAGGAGAGTGGATCCATGACCTCCGACGCGATAAGAT
 CGCCCTGTGCTGTCTGCCATCAGCTGGGGGTGTCCGAGTCCAGATGGATGACTGGAAGGTTGTCAGT
 GGAGGCGAGGAGGGGCTGGTGTCTGTGGGATTACCGCATGAACCAGAAGCTGTGGAAAGTCACTCCA
 GGCACCCTGTGCGCTATCTCCTTCAATAGCCACAGCCTCATCACTGCCAACGTGCCCTACGAGAAGGT
 GCTGCGAAACTCCGACCTCGACAACCTTGCCTGTACAGGAGACATCGTGGCCTGATCCATGCTATGAA
 TTTGCTGTGGACCAGCTGGCCTTTCAGAGCCCCCTTCTGTCTGCGGCTTACCCCGTACATCATGGCTG
 GATACAGCTATGACCTCGCACTGTCTTTCCCCATGACAGTATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223717 representing NM_172721
 Red=Cloning site Green=Tags(s)

MDDHNLEEFRRHWQEELAQSQALRRRRRLEAGERRSPRRPEAGARGEPASGYLGLAQGLLEGAGRPPAPR
 PGRGGDRKDTSSRSRSPDRDATEPEPLVDQLIRDLNELDDVPPFDVRLPYELAINIFQYLNRELGLCA
 QVSKTWKVI AEDEVLYRQLCRQEGHLPHSRSDYTCWKLILQECLAKEHTLRANWKNRKGAVSELEHVPD
 AVLCDVRSHDGVVIAGYTSGDVRVWDTRTWDYVAPFLESESEEDPGMQPVVSVFVRINSSLAVAAYEDGI
 LNIWDLRTGRFPIFRFEHDARIQALALSQEKPIVATASAFDVVMLYPNEEGHWHVASEFEVQKLVYLEI
 VPNTGRYPVAIATAGDLVYLLKADDSARTLHYVYGQPATCLDVSAQVAFGVKSLGWVYEGNKILVYSLE
 AERCLSKLGNALGDFTCVNIRDSPNLMVSGNMDRRVRVIRHDLRSDKIALSLSAHQLGVSAVQMDDWKVVS
 GGEEGLVSVWDYRMNQKLWEVHSRHPVRYLSFNHSLITANVPYKVLVNSDLDNFACHRRHRGLIHAYE
 FAVDQLAFQSPVPVCRPRDIMAGYSYDLALSFPHDSI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_172721

ORF Size: 1794 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_172721.2](#), [NP_766309.2](#)

RefSeq Size: 4978 bp

RefSeq ORF: 1797 bp

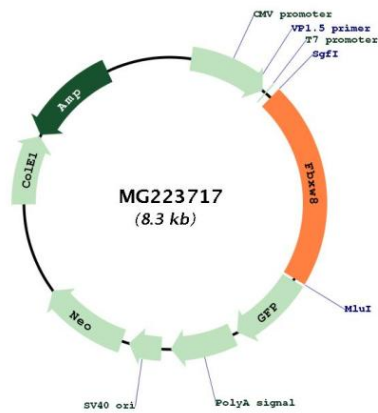
Locus ID: 231672

UniProt ID: [Q8BIA4](#)

Cytogenetics: 5 F

Gene Summary:

Substrate-recognition component of a Cul7-RING ubiquitin-protein ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. The Cul7-RING(FBXW8) complex mediates ubiquitination and consequent degradation of GORASP1, acting as a component of the ubiquitin ligase pathway that regulates Golgi morphogenesis and dendrite patterning in brain. The Cul7-RING(FBXW8) complex also mediates ubiquitination of MAP4K1/HPK1: recognizes and binds autophosphorylated MAP4K1/HPK1, leading to its degradation, thereby affecting cell proliferation and differentiation. Associated component of the 3M complex, suggesting that it mediates some of 3M complex functions (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG223717