

Product datasheet for **MC202553**

Fbxo38 (NM_134136) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fbxo38 (NM_134136) Mouse Untagged Clone
Tag: Tag Free
Symbol: Fbxo38
Synonyms: 6030410I24Rik; AU044865; AW214031; Moka; SP329
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC056348 sequence for NM_134136
ATTCTCGGTCCCTCTCCACCACAAAAACAGACGGAGGGCCGGCGTAAGTGAGCCGGCCCTGGGAGGCTG
TCGCGACGGTGGAGGTATTTTGAACAACTTTGACACTGAGGGAGCACAGCCATGGGACCACGAAAGAAA
AGTGCTAAAGTGTGTGTGATGGACAGTGAGGTCGCTGAGGAAATGACAGCCGATGAAGAGAAGGACTACA
TGAACCGCTGTACATGAAGTGCTCTGTTCATATCTTCAGGTACCTGCCACTACAGGACATCATGTGCAT
GGAATGCCTCTCTCGGAAGCTAAAGGAGGCAGTCACTCTGTATCTGAGAGTTGTCAGAGTGGTGGATCTC
TGTGCAGGGCGCTGGTGGGAATATATGCCAAGTGGCTTACAGATTCCAGTTTCCAAACCTTTTGAAGA
AGATGCCAGATGTTGAACAGCTGTATGGCTTACCCCTAGATACCTCGAGAGGCGAAGAGTGAGGGGCCA
GGAGGCTTTCAGCATCCCAGGAGTCTTGGAAAGCTTGGCAAGCGTGCCCAAACCTGGTGGGTGTAGAAACA
TCTCATTTGGAGTTGGTAGAATCCATTTGGACATATATGCCGCATGTTTCATATTTTGGGAAATTTTCGTA
ATCGTAACGGAGCATTTCCGATTCTCCTGAAAATAAACTGAAAATCCCCATAGGAGCCAAAATCCAAAC
TTTGCATTTAGTTGGTGTCAATGTTCTGAAATCCCTTGTATCCCTATGCTAAGGCACCTGTACATGAAG
TGGGTGAGACTCACTAAACCACAGCCGTTTAAAGATTTCCCTTTGCATCAGCTTGGAACTTTTGTATGA
GAACTGTGCAGGACCAACAACTCCTTGAATACGTGCCCTTGGTAACAGGTCTGGCATCTGCCGTAA
CCTGGAACACTTGGAAATGGTTCGAGTCCCTTTCTGGGAGGTCTCATCCAACACGTGGTGAAGACAGC
TGGAGATCAGGTGGTTTTAGGAACCTGCACACTATTGCTTAGGAGCTTGAAGAATGCCCTGGAAGTAG
ACCTTGGCTACCTCATCATCACTGCTGCGCAAGGTTACATGAAGTTCGCATCCAGCCTTCTTTAACCA
AGATGGTGTCTTTCTGCCCTAAAGATGGCAGAATTGGAGTTTCCCAGTTTGAACCCCTCATCTGGGA
TATGTAGATGAGTCTTGTCTACAGAGCAGAATGGCGAATGAGATTTGGTGAAGTATGGCTGGCTGATG
TGGTAGAAAATCCTGGTATCATTACTGATATAGGGATGAAGGCAGTCAATGAAGTTTTTCTGTATCAA
ATATCTGGCAATTTATAACTGTCCTCATCTACACAACCCATAACAATTGGATCTCAGACCACTCGAGGTGG
ATGCGACTGGTTGATATCAACCTCGTGGGTGCCATGCTTTGAAGCTGGATTCTTTTGGCCAGTTTGTG
AATTATTGCCAGCCTGGAATTTATTTCTGACCAGATGTTCCGTGAGCCACCAAGGCTGTGCTCG
AGTTGGTCTGAGTGCAGGAACCTGGAATTTGGGTTTCTCAGCGCTTGTGCAACCAAGAATTCACAAT
GACAATGACAATAATGCTCCAAATAACAACGCCAACCTCCATGATAACAATCACCATCACCAGATGATT
CGGATGACGACAATGACTTTCGTCAGACCTACAAGCAGGAGAGGCACAATTTGCAGCCGATGCGTTGAA
TGAGATGGAAGACATGGTCCAGGAAGATGGAGAAGTGGTAGCCGAGAGTGAAATGGTATGCCAGCTCAC



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AATCGGGAAGTTCTTCTGTGGATGCTGATGAGGAACAAGCAGGACCTAGTGGTCTACAACGCGTGGTAA
AACCTACACCAATTGCTGATCACGATTCAGAGAGCGATGATGAAGAAGATAGTTTAGAACTCCAAGAAGT
CTGGGCTCCTAAGAAATGGCACCCGGCGTTACTCAGAGCGGGAAGAAAAGACTGGAGACTCAGGACAGTCC
AGGAAACGGCAGTAAGTGGAAAGGCAAGACTCCACTTCGAAAGAGGTGCAACAACCTCCACCAGACGG
GCCAGGCGAAGCCGTTTCCCCTGGAGGAGAGCAGCTGTGAGAAAGGCTGTGAGGTGACCAGTGCAGCAGAT
CAAAGCCGATATGAAAGCAGCTAGGGATGTTTCTGAAAAGAAAAATCCAAGGATGTCTATCCCAGCTGC
AGCAGCAGCAGCAGCAGCAGCCGCCAGCAGCAGCGGGAACGCCAGCTCACCCAGCACTGCTTCCCAGA
GCCGGACTTTGCAAGGACGGTGACCAGCAGCGGCTCTTCCGAGCCGAGCCCTCCAGAAGTAGATGTATC
CAGGCAGTGTGTCTGCTCCCCTGGTGGGTGAGGACTCTGAGGCCATGGAGGAGGAGATGCAGAGAGC
TCTGTCTGCCCCAGATGTGTGTCTCAGGCCAGGAGTCTCAAAGGAGAACTGGCAGGTGTTCTGATG
AGGAGCGTCTTCAACCAGCCGAGCCTGTGTTGTGAATGGCGGGATGGTACGAGATCCGCCTTTTCCTT
TAGGACTCTGCCACAAGGGGGTCTTCCAGGCCAGCACATGATGAGAGGACTAATGGGAGTGGCTGTGGG
GCTACAGTGTGAGGACAGGAGGGGAGCTCCAGCCTGAGAGTTGTGACGTGCAGTCTAATGAAGACTATC
CTCGGAGGCCCTAACCCAGGCCAGGAGCAGACTGTCCATGTACCGCTGATATCTGAGTCAGAAGTTGC
CAAACAAGCCATGCCATGCCATGAAACGAAAGCGAACTGCAGATAAGTCTACCAGCACCAGTGACCCCT
GTGATTGAAGATGACCAGTACAGGTTCTGTATTAATAATCCAAAAATCTTGTGGAGTACAATGACCA
ATTGTGGAATCACAGATCTAGTACTGAAAGACTGCCCAAGATGATGTTTATCCATGCTACCAGGTGCAG
GGTACTGAAGCATTTAAAGGTAGAAAATGCACCAATTGTAACCGATTTGACTATGCACAGTGAAGAAA
CTAAATATGGACCAGGTACTAGACCAAATACTGAGGATGCCTCCGGAGAGGAACCGGATCATCTACCTGC
GCCCAATGCAGCAGGTAGACACACTAATCTGGAGCAGAAGCTCTTCCAGCGGCCCTACCCCTATCACAT
CTGCATCATCCACGAGTTCAGCAATCCTCCCAACGTGCGGAACAAGGTGCGCATCCGCAATTGGATGGAC
ACGATAGCCAACATCAATCAAGAGCTCATTAAATACGAATCTTCTGGAAGCCACTCGGACTGAAGAGG
ATTTAAAGAAGTACCCTAAGTATCCCTGGGGGAGAGAAATCTACACTTTAGAGGGTGTGTAGATGGAGC
GCCGATTTCCATGATTTCCGACTTCCCTTGGCTGAGGTCACTGCGGACCGCAGAGCCCAACAGCTTTGCC
AGATATGATTTTTGAAGATGATGAAGAGACACCATCTATGCTCCTCGAAGAAAAGGGCAGTGTCTGCAG
ACATTTGTATGGAGACAATAGGAGAGGAGATCTCAGAGATGCGCCAGATGAAGAGGGGCATATTTACGCG
AGTAGTAGCGATTTTATCCACTACTGTGATGTCAATGGAGAGCCAGTTGAAGACGACTACATTTAAGTA
GACTTTTCTGGCTCTTCTGGCCAGAGCAGCCAAGAGTCTCTACACAGGAACCTTGGGCTTGGAAATTGG
GAGGCCCTGGCTCAGTTTGTATATAGGAAATATATAAGGAACATGGAAATTGTATACAAAGATTTATAT
ATAGAAGAAATATACAAAGATACTTCAAATGTAACATCTTTATATCCTATGTTTATACATCTTAATTTA
AAGACGTCAATTTGAAGGCAGGCAATCGTTTAGCAGTGGTGTGTTCTTTTCTGACTTAGTTCTCAGTG
TCAGGCGACTGAGCCTATTGCCTCTGCTCCTCACCACGTCTTACGTCTGTGCCTTTTTCTCTCCAGCA
GAGCTGTTTGTGAGTACCCTCCTAAAGAGTGTGTATCTTGTGTGTTTTTGTACCATGATGCCAACTAAA
CCCTTAGTCAGAGAAGATTATGTTTCTGCACTAAGATGTGGCTCTTCTTTTTTGTGTGTTTATATTTGGC
ATATTCATTTACATGAAAAGATTGACGAACTTAAATAAATTTGAAGGGCAATAAAAAAAAAAAAAAAAAA AAAAAAAAAA

Restriction Sites:

Ascl-NotI

ACCN:

NM_134136

Insert Size:

3585 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC056348](#), [AAH56348](#)

RefSeq Size: 4280 bp

RefSeq ORF: 3585 bp

Locus ID: 107035

UniProt ID: [Q8BMI0](#)

Cytogenetics: 18 E1

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 PDCD1/PD-1, thereby regulating T-cells-mediated immunity (PubMed:30487606). Required for anti-tumor activity of T-cells by promoting the degradation of PDCD1/PD-1; the PDCD1-mediated inhibitory pathway being exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (PubMed:30487606). May indirectly stimulate the activity of transcription factor KLF7, a regulator of neuronal differentiation, without promoting KLF7 ubiquitination (PubMed:14729953, PubMed:16990251).[UniProtKB/Swiss-Prot Function]