

Product datasheet for MR204160

Fbxo22 (NM_028049) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo22 (NM_028049) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo22
Synonyms:	0610033L19Rik; 1600016C16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204160 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGATTCTGAACTTTCATCAGCCTGGAAGAGTGTCTGGCCATAAAAGAGCGAGGAAGAGAACTA
CTATGGAGACAGCATGTGCCCTGGAGAAGCTTTCCCAAGCAGTGCCAAGTCTTGGGATTGTGACCCC
GGGAATTGTGGTACTCCAATGGGATCAGGTAGCAATCGACCTCAGGAAATAGAAATTGGAGAATCTGGT
TTTGCTTTATTATCCCTCAAATTGAAGGAATAAAAATCAACCCTTTCATTTTATAAGGACTCCAAGA
ATTTAACACTCGAAAGACACCAGCTTACTGAAGTAGGTCTTCTGGACAACCTGAACTTCGTGTGGTCTC
TGTCTTTGGCTATAACTGCTGTAAGGTGGGAGCCAGTAATTACCTGCATCGGGTAGTCAGCACTTTCAGC
GATATGAATATCATCTTGGCTGGAGGCCAGGTGGACAATTTGTCTTCACTTACTTGTGAGAAGAACCCTC
TGGATATTGATGCCACAGGTGTGGTTGGACTGTCAATTTAGTGGGCACCGAATCCAGAGTGCCACAGTTCT
CCTCACTGAGGATGTAATGATGCCAAGACCGTCGAGGCTGCTATGCAGCGCCTCAAAGCAGCCAACATC
CCTGAACAGAACACCATTTGGCTTCATGTTTGCATGCGTTGGCCGAGGCTTTCAGTACTACAGAGCCAAGG
GGAATGTTGAAGCTGATGCATTTAGAAAGTTCTTCCAGTGTCCCTTATTTGGCTTCTTTGAAATGG
GGAGATTGGCTGCGACCGGATAGTCACTGGAACTTTATACTGAGGAGATGTAATGAGGTAAGGAAGAG
GACCTGTTCCATAGCTACACAACCATCATGGCTCTCGTTCACCTGGGAACCTCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204160 protein sequence
Red=Cloning site Green=Tags(s)

MADSETFISLEECRGHKRKRKRTTETACALEKLFKPKQCQVLGIVTPGIVVTPMGSGSNRPQEIEIGESG
 FALLFPQIEGIKIQPFHFIKDSKNLTLERHQLTEVGLLDNPELRVVLVFGYNCCKV GASNYLHRVSTFS
 DMNII LAGGQVDNLSSLTCEKNPLDIDATGVVGLSFSGHRIQSATVLLTEDVNDAKTVEAMQRLKAANI
 PEQNTIGFMFACVGRGFQYYRAKGNVEADAFRKFPPSVPLFGFFGNGEIGCDRIVTGNFILRRRCNEVKEE
 DLFHSYTTIMALVHLGTSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_028049

ORF Size: 900 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_028049.1](#), [NP_082325.1](#)

RefSeq Size: 2117 bp

RefSeq ORF: 1209 bp

Locus ID: 71999

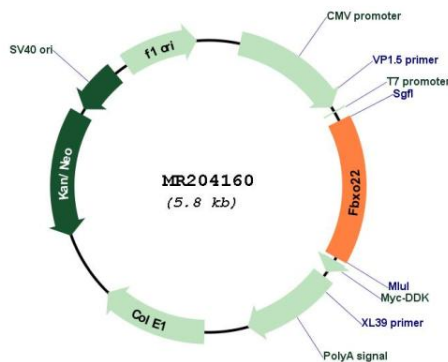
UniProt ID: [Q78JE5](#)

Cytogenetics: 9 B

MW: 33 kDa

Gene Summary: Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex. Promotes the proteasome-dependent degradation of key sarcomeric proteins, such as alpha-actinin (ACTN2) and filamin-C (FLNC), essential for maintenance of normal contractile function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204160