

Product datasheet for MR220865

Fkbp8 (NM_010223) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp8 (NM_010223) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fkbp8
Synonyms:	38kDa; FKBP-8; FKBP-38; Fkbp38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220865 representing NM_010223 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTTGGGCTGAGCCCTCTGAGCCTGCTGCCCTGCGACTTCTGGGGCCCCACTGCTGGAGGGCT
TTGAGGTGCTCGATGGGTTGATGATGCAGAGGAGGAAGATGACCTAAGTGGGCTGCCACCACTAGAGGA
CATGGGACAGCCTACAGTGGAGGAGGCTGAGCAGCCTGGAGCCCTGGCTCGGGAGTTCCTGGCAGCCACA
GAGCCTGAGCCAGCCCCAGCCCCAGCCCCGGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGGA
TGAAGACTGGTCCCAGGCCGAAAGGCTCTAGCCGCCCACTCAAGGGCCAGGTGGTGACCGTTACCT
GCAGATGTCCCTGGAGAATGGCACCCGTGTACAGGAAGAGCCTGAACTGGCCTTACGCTGGGAGACTGC
GATGTTATCCAGGCCCTGGACCTCAGTGTCCCCTCATGGATGTGGGCGAGACAGCCATGTTACCGCTG
ACTCCAAGTACTGCTACGGCCCCAGGGCAGGAGCCCATACATCCCCCCCCACGCAGCCCTGTGCCTGGA
AGTCACCTGAAGACGGCAGAGGATGGACCCGACCTGGAGATGCTGAGTGGGCGAGGAGCGGTGGCCCTG
GCCAACCGCAAGCGGGAGTGTGGCAATGCCCACTACCAGCGTCCCGACTTGTGCTGGCCGCAATTCT
ATGACCTGGCCATCAAGGCTATCACCTCCAACACCAAAGTGGACATGACTTGTGAGGAGGAAGAGGAGCT
GCTACAGCTGAAGTCAAGTGTCTGAACAACCTTGGCCCTCACAGCTGAAGCTGGACCACTACCGAGCA
AGGTGCTGGCTCAGCAAGGTGAATATAGTGAAGCCATCCCAATCCTGAGGGCTGCCCTGAAGCTGGAACC
TTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTAAAGAAGCGTGTGCACAGCGGAGCACAGAG
ACCGCCCTGTACCGAAAGATGCTAGGCAACCCAGCCGGCTGCCTGCCAAGTGTCCGGGAAAGGGGGCT
GGTCCATCCCGTGGAAATGGCTGTTGGGGCGACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTGTGGT
CATTGCTGCCAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220865 representing NM_010223
Red=Cloning site Green=Tags(s)

MASWAEPSEPAALRLPGAPLLEGFEVLDGVDDAEEDDL SGLPPLEDMGQPTVEEAEQPGALAREFLAAT
 EPEPAPAPAPEEWDILGNLLRMKTLVPGPKGSSRPLKGQVTVHLQMSLENGTRVQEEPELAFTLGDC
 DVIQALDLSVPLMDVGETAMVTADSKYCYGPGQGRSPYIPPHAALCLEVTLKTAEDGPDLEMLSGQERVAL
 ANRKRECGNAHYQRADFVLAANSYDLAIKAITSENTKVDMTCEEEEEELLQLKVKCLNNLAASQLKLDHYRA
 ALRSCSQVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLEPSNKTIIHAELSKLVKKRAAQRSTE
 TALYRKM LGNPSRLPAKCPGKGAWSIPWKWLFGATAVALGGVALSVVIAARN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_010223

ORF Size: 1206 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_010223.2](#), [NP_034353.2](#)

RefSeq Size: 1727 bp

RefSeq ORF: 1209 bp

Locus ID: 14232

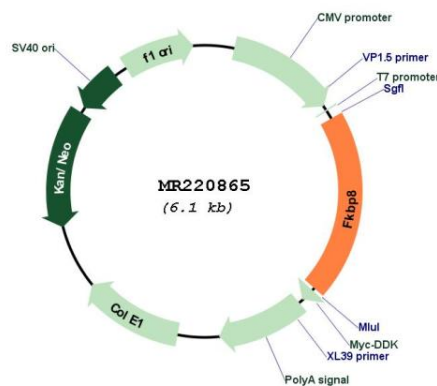
UniProt ID: [O35465](#)

Cytogenetics: 8 B3.3

MW: 44 kDa

Gene Summary: Constitutively inactive PPIase, which becomes active when bound to calmodulin and calcium. Seems to act as a chaperone for BCL2, targets it to the mitochondria and modulates its phosphorylation state. The BCL2/FKBP8/calmodulin/calcium complex probably interferes with the binding of BCL2 to its targets. The active form of FKBP8 may therefore play a role in the regulation of apoptosis (By similarity). Required for normal embryonic development. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220865