

## Product datasheet for MR229720

### Fkbp8 (NM\_001199631) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp8 (NM_001199631) 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:	>MR229720 representing NM_001199631 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACAGCCTACAGTGGAGGAGGCTGAGCAGCCTGGAGCCCTGGCTCGGGAGTTCCTGGCAGCCACAG  
AGCCTGAGCCAGCCCCAGCCCCAGCCCCGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGGAT  
GAAGACTGTTCCAGGCCCGAAAGGCTCTAGCCGCCACTCAAGGGCCAGGTGGTACCGTTCACCTG  
CAGATGTCCTGGAGAATGGCACCCGCTACAGGAAGAGCCTGAAGTGGCCTTCACGCTGGGAGACTGCC  
ATGTTATCCAGGCCCTGGACCTCAGTGTCCCGCTCATGGATGTGGGCGAGACAGCCATGGTTACCGCTGA  
CTCCAAGTACTGCTACGGCCCCAGGGCAGCAGGAGCCATACATCCCCCCCACGCAGCCCTGTGCCTG  
GAAGTACCCTGAAGACGGCAGAGGATGGACCCGACCTGGAGATGCTGAGTGGGCAGGAGCGCTGGCCC  
TGGCCAACCGCAAGCGGGAGTGTGGCAATGCCACTACCAGCGTGTGACTTTGTGCTGGCCGCAATTC  
CTATGACCTGGCCATCAAGGCTATCACCTCCAACCAAAAGTGGACATGACTTGTGAGGAGGAAGAGGAG  
CTGCTACAGCTGAAGGTCAAGTGTCTGAACAACCTTGGCGCTCACAGCTGAAGCTGGACCACTACCGAG  
CAGCTCTGCGTCTGTAGCCAGGTGCTGGAGCACCAGCCGACAACATCAAGGCACTGTTCGCAAGGG  
CAAGGTGCTGGCTCAGCAAGGTGAATATAGTGAGGCCATCCCAATCCTGAGGGCTGCCCTGAAGCTGGAA  
CCTTCCAACAAGACGATCCACGCAGAGCTCTAAAGCTGGTAAAGAAGCGTGTGCACAGCGGAGCACAG  
AGACCGCCTGTACCGAAAGATGCTAGGCAACCCAGCCGCTGCCTGCCAAGTGTCCGGGAAAGGGGGC  
CTGGTCCATCCCGTGAAATGGTGTGGGGGCGACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTGTG  
GTCATTGCTGCCAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR229720 representing NM\_001199631  
 Red=Cloning site Green=Tags(s)

MGQPTVEEAEQPGALAREFLAATEPEPAPAPAPEEWLDILGNLLRMKTLVPGPKGSSRPLKGQVVTVHL  
 QMSLENGTRVQEEPELAF TLGDCDVIQALDL SVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCL  
 EVTLKTAEDGPDLEMLSGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSNTKVDMTCEEEE  
 LLQLKVKCLNNLAASQLKLDHYRAALRSCSQVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLE  
 PSNKTIIHAELSKLVKKRAAQRSTETALYRKMLGNPSRLPAKCPGKGAWSIPWKWLFGATAVALGGVALSV  
 VIAARN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001199631

**ORF Size:** 1068 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\\_001199631.1](#), [NP\\_001186560.1](#)

**RefSeq Size:** 1826 bp

**RefSeq ORF:** 1212 bp

**Locus ID:** 14232

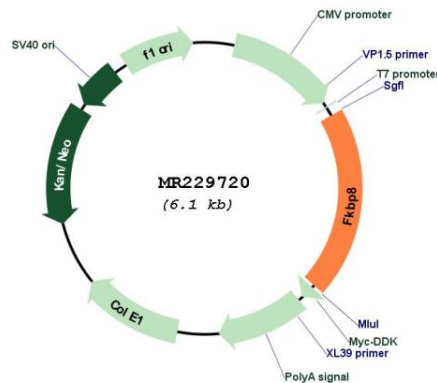
**UniProt ID:** [O35465](#)

**Cytogenetics:** 8 B3.3

**MW:** 38.7 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 MR229720