

Product datasheet for **MG220865**

Fkbp8 (NM_010223) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp8 (NM_010223) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fkbp8
Synonyms:	38kDa; FKBP-8; FKBP-38; Fkbp38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220865 representing NM_010223 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACAGCCTACAGTGGAGGAGGCTGAGCAGCCTGGAGCCCTGGCTCGGGAGTTCCTGGCAGCCACAG
AGCCTGAGCCAGCCCCAGCCCCAGCCCCGGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGGAT
GAAGACTGGTCCCAGGCCGAAAGGCTCTAGCCGCCACTCAAGGGCCAGGTGGTACCGTTCACCTG
CAGATGTCCTGGAGAATGGCACCCGCTACAGGAAGAGCCTGAACTGGCCTTCACGCTGGGAGACTGCC
ATGTTATCCAGGCCCTGGACCTCAGTGTCCGCTCATGGATGTGGGCGAGACAGCCATGGTTACCGCTGA
CTCCAAGTACTGCTACGGCCCCAGGGCAGCAGGAGCCATACATCCCCCCCACGAGCCCTGTGCCTG
GAAGTACCCTGAAGACGGCAGAGGATGGACCCGACCTGGAGATGCTGAGTGGGCAGGAGCGCTGGCCC
TGGCCAACCGCAAGCGGGAGTGTGGCAATGCCACTACCAGCGTGTGACTTTGTGCTGGCCGCAATTC
CTATGACCTGGCCATCAAGGCTATCACCTCCAACCAAAAGTGGACATGACTTGTGAGGAGGAAGAGGAG
CTGCTACAGTGAAGGTCAAGTGTCTGAACAACCTTGGCGCTCACAGCTGAAGCTGGACCACTACCGAG
CAGCTCTGCGTCTGTAGCCAGGTGCTGGAGCACCAGCCGACAACATCAAGGCACTGTCCGCAAGGG
CAAGGTGCTGGCTCAGCAAGGTGAATATAGTGAGGCCATCCCAATCCTGAGGGCTGCCCTGAAGCTGGAA
CCTTCCAACAAGACGATCCACGCAGAGCTCTAAAGCTGGTAAAGAAGCGTGTGCACAGCGGAGCACAG
AGACCGCCTGTACCGAAAGATGCTAGGCAACCCAGCCGCTGCCTGCCAAGTGTCCGGGAAAGGGGGC
CTGGTCCATCCCGTGAAATGGTGTGGGGCGACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTGTG
GTCATTGCTGCCAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220865 representing NM_010223
 Red=Cloning site Green=Tags(s)

MGQPTVEEAEQPGALAREFLAATEPEPAPAPAPEEWLDILGNLLRMKTLVPGPKGSSRPLKQGVTVHL
 QMSLENGTRVQEEPELAF TLGDCDVIQALDL SVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCL
 EVTLKTAEDGPDLEMLSGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSNKVDMTCEEEEE
 LLQLKVKCLNLAASQLKLDHYRAALRSCSQVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLE
 PSNKTIIHAELSKLVKKRAAQRSTETALYRKMLGNPSRLPAKCPGKGAWSIPWKWLFGATAVALGGVALSV
 VIAARN

TRTRPLE - GFP Tag - V

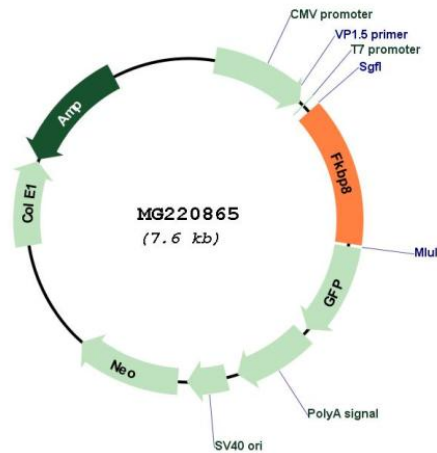
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	Q35465
Cytogenetics:	8 B3.3
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]