

Product datasheet for **MG205407**

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: >MG205407 representing NM_010223
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGACAGCCTACAGTGGAGGAGGCTGAGCAGCCTGGAGCCCTGGCTCGGGAGTTCCTGGCAGCCACAG
 AGCCTGAGCCAGCCCCAGCCCCAGCCCCGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGGAT
 GAAGACTGTTCCAGGCCGAAAGGCTCTAGCCGCCACTCAAGGGCCAGGTGGTACCGTTCACCTG
 CAGATGTCCTGGAGAATGGCACCCGCTACAGGAAGAGCCTGAACTGGCCTTCACGCTGGGAGACTGCC
 ATGTTATCCAGGCCCTGGACCTCAGTGTCCGCTCATGGATGTGGGCGAGACAGCCATGGTTACCGCTGA
 CTCCAAGTACTGCTACGGCCCCAGGGCAGCAGGAGCCATACATCCCCCCCACGCAGCCCTGTGCCTG
 GAAGTCAACCTGAAGACGGCAGAGGATGGACCCGACCTGGAGATGCTGAGTGGGCAGGAGCGCTGGCCC
 TGGCCAACCGCAAGCGGGAGTGTGGCAATGCCACTACCAGCGTGTGACTTTGTGCTGGCCGCAATTC
 CTATGACCTGGCCATCAAGGCTATCACCTCCAACCAAAAGTGGACATGACTTGTGAGGAGGAAGAGGAG
 CTGCTACAGTGAAGGTCAAGTGTCTGAACAACCTTGGCGCTCACAGCTGAAGCTGGACCACTACCGAG
 CAGCTCTGCGTCTGTAGCCAGGTGCTGGAGCACCAGCCGACAACATCAAGGCACTGTCCGCAAGGG
 CAAGGTGCTGGCTCAGCAAGGTGAATATAGTGAGGCCATCCCAATCCTGAGGGCTGCCCTGAAGCTGGAA
 CCTTCCAACAAGACGATCCACGCAGAGCTCTAAAGCTGGTAAAGAAGCGTGTGCACAGCGGAGCACAG
 AGACCGCCTGTACCGAAAGATGCTAGGCAACCCAGCCGCTGCCTGCCAAGTGTCCGGGAAAGGGGGC
 CTGGTCCATCCCGTGAAATGGTGTGGGGCGACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTGTG
 GTCATTGCTGCCAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205407 representing NM_010223
Red=Cloning site Green=Tags(s)

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MGQPTVEEAEQPGALAREFLAATEPEPAPAPAPEEWLDILGNLLRMKTLVPGPKGSSRPLKGQVTVHL
QMSLENGTRVQEEPELAF TLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCL
EVTLKTAEDGPDLEMLSGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSNTKVDMTCEEEE
LLQLKVKCLNLAASQLKLDHYRAALRSCSQVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPLRAALKLE
PSNKTIIHAELSKLVKKRAAQRSTETALYRKMLGNPSRLPAKCPGKGAWSIPWKWLFGATAVALGGVALSV
VIAARN
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010223

ORF Size: 1724 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_010223.1](#)

RefSeq Size: 1514 bp

RefSeq ORF: 1209 bp

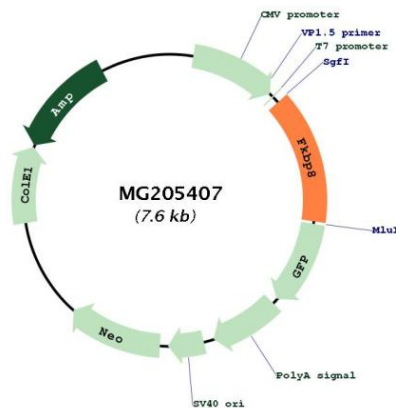
Locus ID: 14232

UniProt ID: [O35465](#)

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]

Product images:



Circular map for MG205407