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Product datasheet for RR209087

Fkbp8 (NM_001037180) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp8 (NM_001037180) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fkbp8
Synonyms:	FKBP-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR209087 representing NM_001037180
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTTGGGCCGAGCCCTCTGAGCCTGCTGCCCAGCTACTTTGTGGGGCCCCACTCCTGGAGGGCT
TTGAGGTGCTTGATGGGGTTGATGATGCAGAGGAGGAAGATGACCTAAGTGGGTTGCCACCACTAGAGGA
TATGGGACAGCCTACGGTGGAGGAGGCTGAGCAGCCTGGAGCCCTAGCTCGGGAGTTCCTGGCAGCCACA
GAGCCTGAGCCAGCCCCAGCCCCCGCCCCGGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGTA
AGAAGACACTGGTCCCAGGCCCAACAGGCTCTAGCCGCCCACTCAAGGGCCAGGTGGTGACCGTACACCT
GCAGATGTCCCTGGAGAATGGCACCCGTGTGCAAGAGGAGCCCGAACTGGCTTTCACGCTTGGAGACTGC
GATGTTATCCAGGCCCTGGACCTCAGCGTCCCGCTCATGCATGTGGGCGAGACAGCAATGGTCACCGCTG
ACTCCAAGTACTGCTACGGTCCCCAGGGCAGCAGGAGCCCATACATCCCCCCCCCATGCAGCCCTGTGCCT
GGAAGTCACCCTGAAGACAGCAGAGGATGGACCTGACCTGGAGATGCTGAGTGGGCAGGAGCGCGTGGCC
CTGGCCAACCGCAAGCGGGAGTGTGGCAATGCCCACTACCAGCGTGCTGACTTTGTGCTGGCTGCCAACT
CCTATGACCTGGCCATCAAGGCCATCACCTCCAACGCCAAAGTGGACATGACTTGTGAGGAGGAGGAGGA
GCTGCTACAGCTGAAGGTCAAGTGTCTGAACAACCTTGCGGCATCGCAGCTAAAGCTGGACCACTACCGA
GCAGCACTGCGCTCCTGTAGCCAGGTGCTGGAGCACCAGCCAGACAACATCAAGGCACTGTTCCGCAAGG
GCAAGGTGCTGGCTCAGCAGGGTGAATACAGTGAGGCCATCCCCATCCTGAGGGCGGCCCTGAAGCTGGA
GCCTTCCAACAAGACGATCCATGCGGAGCTCTCAAAGCTGGTAAAGAAGCGTGCTGCACAGCGGAGCACA
GAGACTGCCCTGTACCGAAAGATGCTAGGCAACCCCAGCCGGCTGCCTGCCAAGTGTCCGGGCAAGGGTG
CCTGGTCCATCCCGTGGAAATGGCTGTTTGGGGCAACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTCTGT
GGTCATTGCTGCCAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

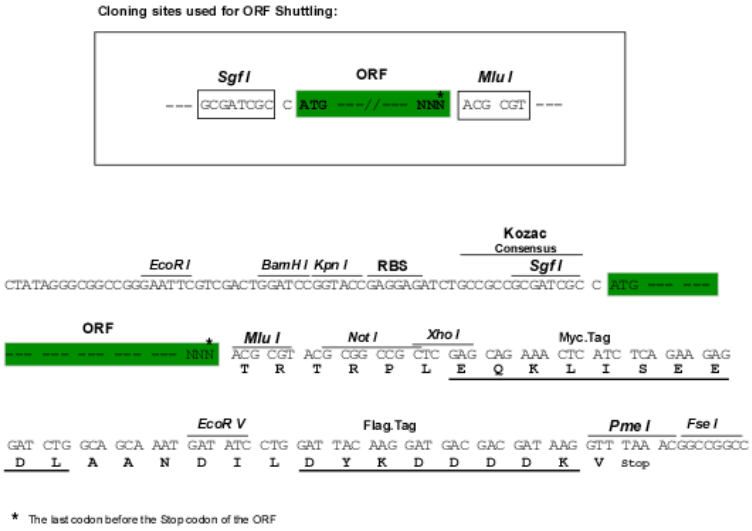
>RR209087 representing NM_001037180
Red=Cloning site Green=Tags(s)

MASWAEPSEPAAQLLCGAPLLEGFEVLDGVDDAEEEDDLSGLPPLEDMGQPTVEEAEQPGALAREFLAAT
EPEPAPAPAPEEWLDILGNGLLRKKTLVPGPTGSSRPLKGQVVTVHLQMSLENGTRVQEEPELAFTLGDC
DVIQALDLSVPLMHVGETAMVTADSKYCYGPQGSRSPYIPPHAALCLEVTLKTAEDGPDLEMLSGQERVA
LANRKRECGNAHYQRADFVLAANSYDLAIKAITSNAKVDMTCEEEEELLQLKVKCLNNLAASQLKLDHYR
AALRSCSQVLEHQPDNIKALFRKGKVLAQQGEYSEAIPILRAALKLEPSNKTIHAELSKLVKKRAAQRST
ETALYRKMLGNPSRLPAKCPGKGAWSIPWKWLFGATAVALGGVALSVVIAARN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037180

ORF Size: 1209 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_001037180.1, NP_001032257.1

RefSeq Size: 1679 bp

RefSeq ORF: 1212 bp

Locus ID: 290652

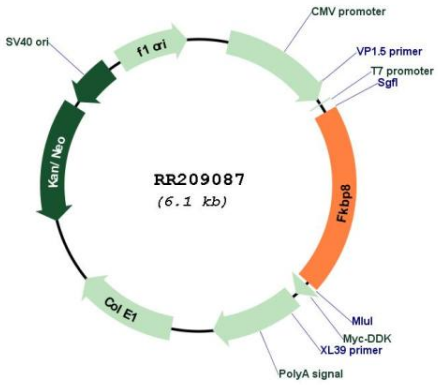
UniProt ID: Q3B7U9

Cytogenetics: 16p14

MW: 43.6 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209087