

## Product datasheet for **RN209087**

### **Fkbp8 (NM\_001037180) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fkbp8 (NM_001037180) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fkbp8
Synonyms:	FKBP-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209087 representing NM_001037180 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCTTGGGCCGAGCCCTCTGAGCCTGCTGCCAGCTACTTTGTGGGGCCCCACTCCTGGAGGGCT  
TTGAGGTGCTTGATGGGGTTGATGATGCAGAGGAGGAAGATGACCTAAGTGGGTTGCCACCACTAGAGGA  
TATGGGACAGCCTACGGTGGAGGAGGCTGAGCAGCCTGGAGCCCTAGCTCGGGAGTTCCTGGCAGCCACA  
GAGCCTGAGCCAGCCCCAGCCCCGCCCGGAAGAGTGGCTGGACATTCTGGGGAACGGATTGCTGCGTA  
AGAAGACTGGTCCCAGGCCAACAGGCTCTAGCCGCCCACTCAAGGGCCAGGTGGTACCCTACACCT  
GCAGATGTCCCTGGAGAATGGCACCCGTGTGCAAGAGGAGCCCGAACTGGCTTTCACGCTTGGAGACTGC  
GATGTTATCCAGGCCCTGGACCTCAGCGTCCCCTCATGCATGTGGGCGAGACAGCAATGGTACCCTG  
ACTCCAAGTACTGCTACGGTCCCCAGGGCAGCAGGAGCCCATACATCCCCCCCCATGCAGCCCTGTGCCT  
GGAAGTCAACCCTGAAGACAGCAGAGGATGGACCTGACCTGGAGATGCTGAGTGGGCGAGGAGCGCTGGCC  
CTGGCCAACCGCAAGCGGGAGTGTGGCAATGCCCACTACCAGCGTGTGACTTTGTGCTGGCTGCCAACT  
CCTATGACCTGGCCATCAAGGCCATCACCTCCAACGCCAAAGTGGACATGACTTTGTGAGGAGGAGGAGGA  
GCTGCTACAGCTGAAGGTCAAGTGTCTGAACAACCTTGCAGCATCGCAGCTAAAGCTGGACCACTACCGA  
GCAGACTGCGCTCCTGTAGCCAGGTGCTGGAGCACCAGCCAGACAACATCAAGGCACTGTTCCGCAAGG  
GCAAGGTGCTGGCTCAGCAGGGTGAATACAGTGAGGCCATCCCCATCCTGAGGGCGGCCCTGAAGCTGGA  
GCCTTCCAACAAGACGATCCATGCGGAGCTCTCAAAGCTGGTAAAGAAGCGTGTGCACAGCGGAGCACA  
GAGACTGCCCTGTACCGAAAGATGCTAGGCAACCCAGCCGGCTGCCTGCCAAGTGTCCGGGCAAGGGTG  
CCTGGTCCATCCCGTGGAAATGGCTGTTTGGGGCAACTGCCGTGGCCCTGGGGGGCGTGGCTCTCTGT  
GGTCATTGCTGCCAGGA**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001037180
<b>Insert Size:</b>	1212 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001037180.1</a></u> , <u><a href="#">NP_001032257.1</a></u>
<b>RefSeq Size:</b>	1679 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	290652
<b>UniProt ID:</b>	<u><a href="#">Q3B7U9</a></u>
<b>Cytogenetics:</b>	16p14
<b>Gene Summary:</b>	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]