

## Product datasheet for **RR216713**

### **Fkbp4 (NM\_001191863) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fkbp4 (NM_001191863) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fkbp4
Synonyms:	FKBP-4; FKBP-52; p59
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR216713 representing NM\_001191863  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACCGCCGAGGAGATGAAGGTGGCGGAGAACGGGGCGCAATCGGCGCCCTGCCTCTCGAAGGAGTGG  
ACATCAGCCCAAGCAGGACGAGGGCGTCTCAAGGTCATCAAGAGAGAGGGTACAGGCACAGAGACAGC  
CATGATTGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTGCTAGATGGCACAAGTTTGACTCCAGT  
TTGGACCGCAAGGACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTATCAAGGCTTGGGATATTGCTG  
TGGCAACCATGAAAGTGGGGAAAGTGTGCCACATCACCTGCAAGCCAGAATACGCCTACGGTTCCAGCAGG  
CAGCCCTCAAAGATTCCCCAAATGCCACACTTGTATTTGAGGTGGAGCTGTTTGTGTTCAAAGGAGAA  
GATCTTACAGAAGATGAAGATGGTGGGATCATCCGCAGAATACGGACTCGGGGGGAAGGCTATGCCAGGC  
CCAATGATGGCGCTATGGTAGAAGTGGCACTAGAAGGCTACTATAATGACCGGCTGTTTGACCAGCGGGA  
GCTCTGCTTTGAAGTCGGGGAAGGGGAAAGCCTGGATCTGCCCTGTGGGCTGGAGGAGGCCATTCAGCGC  
ATGGAGAAAGGAGAACATTCCATTGTGTACCTCAAACCTAGCTATGCTTTTGGCAGTGTTGGGAAGGAAA  
GGTTCCAGATCCCACCACATGCTGAGCTGAGGTATGAAGTACATCTGAAGAGTTTGGAGAAGGCCAAGGC  
ATCTTGGGAGATGAACTCTGAGGAGAAGCTGGAGCAGAGCAACATAGTGAAGAAAAGGGGCACCGTGTAC  
TTCAAGGAAGGCAAGTACAAGCAAGCCTTACTGCAGTACAAGAAGATTGTGTCTTGGCTAGAATACGAGT  
CTAGTTTTTCCGGTGAGGAAATGCAAAAGGTCCATGCGCTCCGACTGGCCTCACATCTCAATCTGGCCAT  
GTGTCACTGAACTGCAGGCCTTCTCAGCTGCCATCGAAAGCTGTAACAAGGCCTTGGAGCTGGACAGC  
AACATGAGAAGGGCCTGTTTCGCCGGGAGAGGCACACCTGGCCGTGAATGACTTTGACCTGGCAGCAG  
CTGACTTCCAAAAGGTCCTGCAGCTCTATCCCAGCAACAAGCCGCAAGACCCAGCTGGCTGTGTGCCA  
GCAGCGGACCCGAGGCAGCTTGCCCGGAAAAGAAGCTCTATGCCAACATGTTTGGAGAGGCTGGCTGAG  
GAGGAACATAAGGCCAAGACAGAAGTGGCTGCAGGAGACCATCCCACTGATGCTGAGATGAAGGTTGAGC  
CGAAACATGTGGCAGGCAACCAGGCTCAGGTGAAGACAGAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RR216713 representing NM\_001191863  
Red=Cloning site Green=Tags(s)

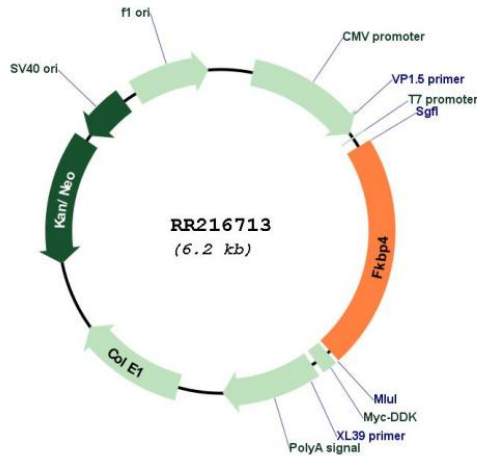
MTAEEMKVAENGAQSAPLPLEGVDISPKQDEGLVKVIKREGTGTETAMIGDRVHVHTGWLLDGTKFDSS  
LDRKDKSFDLKGGEVIKAWDIAVATMKVGEVCHITCKPEYAYGSAGSPPKIPPNATLVFEVLEFEFKGE  
DLTEDEDGGIIRRIRTRGEGYARPNDGAMVEVALEGGYNDRLFQRELCFEVGESELDLPCGLEEAIQR  
MEKGEHSIVYLKPSYAFGSVGKERFQIPPHAELRYEVHLKSFKAKASWEMNSEEKLEQSNIVKERTVY  
FKEGKYQALLQYKKIVSWLEYESSFSGEEMQKVHALRLASHLNLAMCHLKLQAFSAIIESCNKALELDS  
NNEKGLFRRGEAHLAVNDFDLARADFQKVLQLYPSNKAATQLAVCQQRTRRQLAREKKLYANMFERLAE  
EEHKAKTEVAAGDHPTDAEMKGEPNNVAGNQAQVKTEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001191863

**ORF Size:** 1374 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\\_001191863.1](#), [NP\\_001178792.1](#)

**RefSeq Size:** 2845 bp

**RefSeq ORF:** 1377 bp

**Locus ID:** 260321

**UniProt ID:** [Q9QVC8](#)

**Cytogenetics:** 4q42

**MW:** 51.5 kDa

**Gene Summary:** Immunophilin protein with PPIase and co-chaperone activities (By similarity). Component of unligated steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90) (By similarity). Plays a role in the intracellular trafficking of heterooligomeric forms of steroid hormone receptors between cytoplasm and nuclear compartments. May have a protective role against oxidative stress in mitochondria (By similarity). Acts also as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly. The PPIase activity controls neuronal growth cones via regulation of TRPC1 channel opening. [UniProtKB/Swiss-Prot Function]