

Product datasheet for **RN216713**

Fkbp4 (NM_001191863) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN216713 representing NM_001191863
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCGCCGAGGAGATGAAGGTGGCGGAGAACGGGGCGCAATCGGCGCCCTGCCTCTCGAAGGAGTGG
ACATCAGCCCAAGCAGGACGAGGGCGTGCTCAAGGTCATCAAGAGAGAGGGTACAGGCACAGAGACAGC
CATGATTGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTGCTAGATGGCACAAGTTTGACTCCAGT
TTGGACCGCAAGGACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTATCAAGGCTTGGGATATTGCTG
TGGCAACCATGAAAGTGGGGAAAGTGTGCCACATCACCTGCAAGCCAGAATACGCCTACGGTTCCAGCAGG
CAGCCCTCAAAGATTCCCCAAATGCCACACTTGTATTTGAGGTGGAGCTGTTTGTGTTCAAAGGAGAA
GATCTTACAGAAGATGAAGATGGTGGGATCATCCGCAGAATACGGACTCGGGGGGAAGGCTATGCCAGGC
CCAATGATGGCGCTATGGTAGAAGTGGCACTAGAAGGCTACTATAATGACCGGCTGTTTGACCAGCGGGA
GCTCTGCTTTGAAGTCGGGGAAGGGGAAAGCCTGGATCTGCCCTGTGGGCTGGAGGAGGCCATTCAGCGC
ATGGAGAAAGGAGAACATTCCATTGTGTACCTCAAACCTAGCTATGCTTTTGGCAGTGTTGGGAAGGAAA
GGTTCCAGATCCCACCACATGCTGAGCTGAGGTATGAAGTACATCTGAAGAGTTTGGAGAAGGCCAAGGC
ATCTTGGGAGATGAACTCTGAGGAGAAGCTGGAGCAGAGCAACATAGTGAAGAAAAGGGCACCGTGTAC
TTCAAGGAAGGCAAGTACAAGCAAGCCTTACTGCAGTACAAGAAGATTGTGTCTTGGCTAGAATACGAGT
CTAGTTTTTCCGGTGAGGAAATGCAAAAGGTCCATGCGCTCCGACTGGCCTCACATCTCAATCTGGCCAT
GTGTCACTGAACTGCAGGCCTTCTCAGCTGCCATCGAAAGCTGTAACAAGGCCTTGGAGCTGGACAGC
AACATGAGAAGGGCCTGTTTCGCCGGGAGAGGCACACCTGGCCGTGAATGACTTTGACCTGGCAGCAG
CTGACTTCCAAAAGGTCTGCAGCTCTATCCCAGCAACAAGCCGCCAAGACCCAGCTGGCTGTGTCCA
GCAGCGGACCCGAGGCAGCTTGCCCGGGAAAAGAAGCTCTATGCCAACATGTTTGAGAGGCTGGCTGAG
GAGGAACATAAGGCCAAGACAGAAGTGGCTGCAGGAGACCATCCCACTGATGCTGAGATGAAGGGTGAAG
CGAACATGTGGCAGGCAACCAGGCTCAGGTGAAGACAGAAGCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001191863

Insert Size: 1377 bp

OTI Disclaimer: 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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

Gene Summary: Immunophilin protein with PPlase 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 PPlase activity controls neuronal growth cones via regulation of TRPC1 channel opening. [UniProtKB/Swiss-Prot Function]