

Product datasheet for **RC202200**

FKBP25 (FKBP3) (NM_002013) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FKBP25 (FKBP3) (NM_002013) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FKBP25
Synonyms: FKBP-3; FKBP-25; FKBP25; PPlase
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202200 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGCCGTTCCACAGCGGGCGTGGACCGTGGAGCAGCTGCGCAGTGAGCAGCTGCCAAGAAGG
ACATTATCAAGTTTCTGCAGGAACACGGTTCAGATTCGTTTCTTGCAGAACATAAATTATTAGGAAACAT
TAAAAATGTGGCCAAGACAGCTAACAAGGACCACTTGTTACAGCCTATAACCATCTTTTTGAAACTAAG
CGTTTTAAGGTACTGAAAGTATAAGTAAAGTGTCTGAGCAAGTAAAAATGTGAAGCTTAATGAAGATA
AACCCAAAGAAACCAAGTCTGAAGAGACCTGGATGAGGGTCCACCAAAATATACTAAATCTGTTCTGAA
AAAGGGGAGATAAAACCAACTTTCCAAAAAGGGAGATGTTGTTCACTGCTGGTATACAGGAACACTACAA
GATGGGACTGTTTTGATACTAATATTTCAACAAGTGCAAGAAGAAGAAAAATGCCAAGCCTTTAAGTT
TTAAGGTCGGAGTAGGCAAAGTTATCAGAGGATGGGATGAAGCTCTTTGACTATGAGTAAAGGAGAAAA
GGCTCGACTGGAGATTGAACCAGAATGGCTTACGGAAAGAAAGGACAGCCTGATGCCAAAATCCACCA
AATGCAAACTCACTTTTGAAGTGAATTAGTGGATATTGAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202200 protein sequence
Red=Cloning site Green=Tags(s)

MAAAVPQRAWTVELRSEQLPKKDIKFLQEHGSDSFLAEHKLLGNIKNVAKTANKDHLVTAYNHLFETK
 RFKGTESISKVSQVKNVKNLNEKPKETKSEETLDEGPPKYTKSVLKKGDKTNFPKKGDVVHCWYGTGLQ
 DGTVFDTNIQTSAKKKKNAKPLSFKVGVGKVIKRWDEALLTMSKGEKARLEIEPEWAYGKKGQPDAKIPP
 NAKLTFEVELVDID

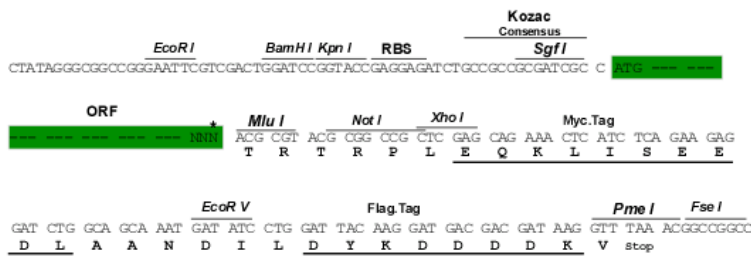
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6008_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_002013

ORF Size: 672 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_002013.4](#)

RefSeq Size: 1353 bp

RefSeq ORF: 675 bp

Locus ID: 2287

UniProt ID: [Q00688](#)

Cytogenetics: 14q21.2

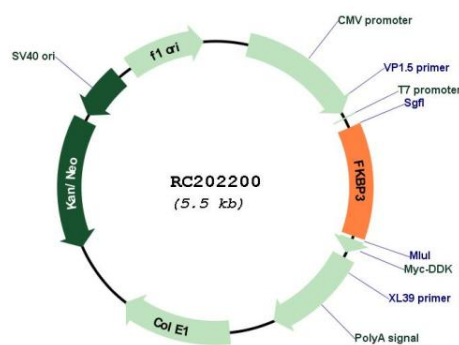
Domains: FKBP

Protein Families: Druggable Genome, Stem cell - Pluripotency

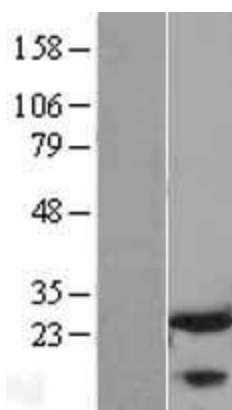
MW: 25.2 kDa

Gene Summary: The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin, as well as histone deacetylases, the transcription factor YY1, casein kinase II, and nucleolin. It has a higher affinity for rapamycin than for FK506 and thus may be an important target molecule for immunosuppression by rapamycin. [provided by RefSeq, Sep 2008]

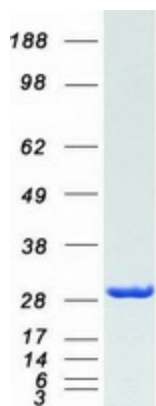
Product images:



Circular map for RC202200



Western blot validation of overexpression lysate (Cat# [LY400736]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FKBP3 protein (Cat# [TP302200]). The protein was produced from HEK293T cells transfected with FKBP3 cDNA clone (Cat# RC202200) using MegaTran 2.0 (Cat# [TT210002]).