

Product datasheet for **RC202176**

FKBP7 (NM_181342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP7 (NM_181342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FKBP7
Synonyms:	FKBP23; PPIase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202176 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAAAACCATGCATTTCTTATTCAGATTCATTGTTTTCTTTTATCTGTGGGCCTTTTTACTGCTC
AGAGACAAAAGAAAGAGGAGAGCACCGAAGAAGTGAAAAAGAAAGTTTGCATCGTCCAGAAAAGTCTC
TAAGACAAGCAAGAAGGGAGACCTACTAAATGCCATTATGACGGCTACCTGGCTAAAGACGGCTCGAAA
TTCTACTGCAGCCGGACACAAAATGAAGGCCACCCAAATGGTTTGTCTTGGTGTGGCAAGTCATAA
AAGGCCTAGACATTGCTATGACAGATATGTGCCCTGGAGAAAAGCGAAAAGTAGTTATACCCCTTCATT
TGATACGAAAAGGAAGGCTATGCAGAAGCAAGATCCACCGGATGCTACATTGATTTTTGAGATTGAA
CTTTATGCTGTGACCAAAGGACCACGGAGCATTGAGACATTTAAACAAATAGACATGGACAATGACAGGC
AGCTCTCTAAAGCCGAGATAAACCTCTACTTGCAAAGGGAATTTGAAAAAGATGAGAAGCCACGTGACAA
GTCATATCAGGATGCAGTTTTAGAAGATATTTTAAAGAAGATGACCATGATGGTGTGATGGCTTCATTTCT
CCCAAGGAATACAATGTATACCAACACGATGAAC

AG**CGACCG**ACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202176 protein sequence
Red=Cloning site Green=Tags(s)

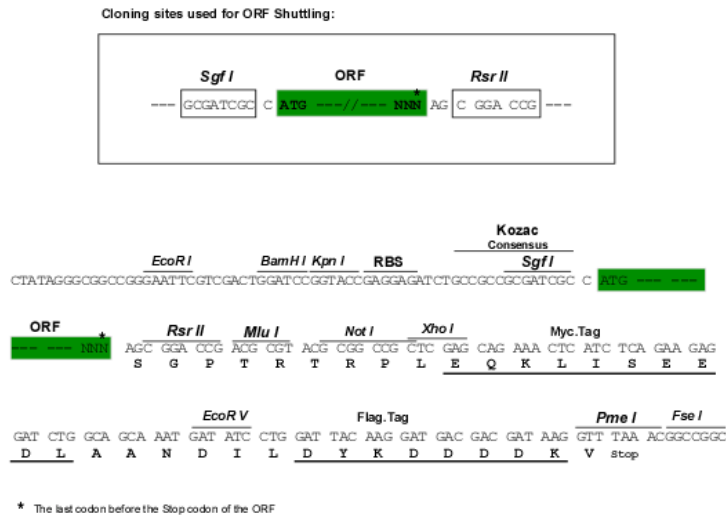
MPKTMHFLFRFIVFFYLWGLFTAQRQKKEESTEEVKIEVLHRPENCSKTSKKGDLLNAHYDGYLAKDGSK
 FYCSRTQNEGHPKWFVLGVGQVIKGLDIAMTDMCPGKRRKVVIPPSFAYGKEGYAEGKIPPDATLIFEIE
 LYAVTKGPRSIETFKQIDMDNDRQLSKAEINLYLQREFEKDEKPRDKSYQDAVLEDFKKNHDHGDGFIS
 PKEYNVYQHDEL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6615_e08.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_181342

ORF Size: 666 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_181342.3](#)

RefSeq Size: 2904 bp

RefSeq ORF: 669 bp

Locus ID: 51661

UniProt ID: [Q9Y680](#)

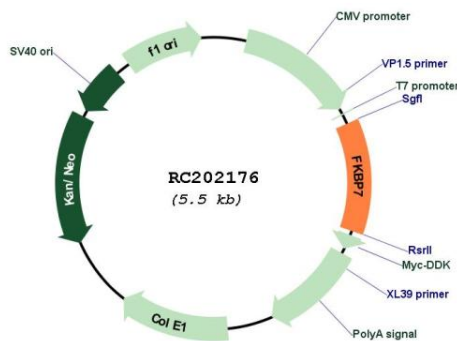
Cytogenetics: 2q31.2

Protein Families: Druggable Genome, Transmembrane

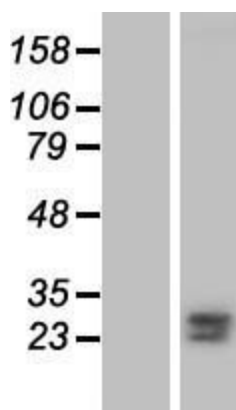
MW: 25.8 kDa

Gene Summary: The protein encoded by this gene belongs to the FKBP-type peptidyl-prolyl cis/trans isomerase (PPIase) family. Members of this family exhibit PPIase activity and function as molecular chaperones. A similar protein in mouse is located in the endoplasmic reticulum and binds calcium. [provided by RefSeq, Jul 2008]

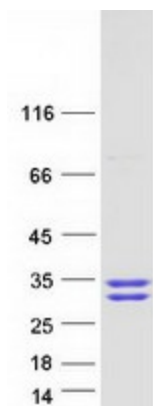
Product images:



Circular map for RC202176



Western blot validation of overexpression lysate (Cat# [LY405796]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202176 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FKBP7 protein (Cat# [TP302176]). The protein was produced from HEK293T cells transfected with FKBP7 cDNA clone (Cat# RC202176) using MegaTran 2.0 (Cat# [TT210002]).