

Product datasheet for **RC204461**

FBP1 (NM_000507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBP1 (NM_000507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBP1
Synonyms:	FBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204461 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGACCAGGCGCCCTTCGACACGGACGTCAACACCCTGACCCGCTTCGTTCATGGAGGAGGGCAGGA
AGGCCCGCGGCACGGGCGAGTTGACCCAGCTGCTCAACTCGCTCTGCACAGCAGTCAAAGCCATCTCTTC
GGCGGTGCGCAAGGCGGGCATCGCGCACCTCTATGGCATTGCTGGTTCTACCAACGTGACAGGTGATCAA
GTTAAGAAGCTGGACGTCTCTCCAACGACCTGGTTATGAACATGTTAAAGTCATCCTTTGCCACGTGTG
TTCTCGTGTGAGAAGAAGATAAACACGCCATCATAGTGAACCGGAGAAAAGGGTAAATATGTGGTCTG
TTTTGATCCCCTTGATGGATCTTCCAACATCGATTGCCTTGTGTCCGTTGGAACATTTTGGCATCTAT
AGAAAGAAATCAACTGATGAGCCTTCTGAGAAGGATGCTCTGCAACCAGGCCGGAACCTGGTGGCAGCCG
GCTACGCACTGTATGGCAGTGCCACCATGCTGGTCTTGGCATGGACTGTGGGTCAACTGCTTCATGCT
GGACCCGGCCATCGGGGAGTTCAATTTGGTGGACAAGGATGTGAAGATAAAAAAGAAAGTAAAACTAC
AGCCTAACGAGGGCTACGCCAGGGACTTTGACCCTGCCGTCCTGAGTACATCCAGAGGAAGAAGTTCC
CCCCAGATAATTCAGCTCCTTATGGGGCCCGGTATGTGGGCTCCATGGTGGCTGATGTTTCATCGCACTCT
GGTCTACGGAGGGATATTTCTGTACCCCGCTAACAAAGAAGAGCCCAATGGAAAGCTGAGACTGCTGTAC
GAATGCAACCCCATGGCCTACGTATGGAGAAGGCTGGGGGAATGGCCACCACTGGGAAGGAGGCCGTGT
TAGACGTCAATCCACAGACATTACCAGAGGGCGCCGGTGATCTTGGGATCCCCGACGACGTGCTCGA
GTTCTGAAGGTGTATGAGAAGCACTCTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204461 protein sequence
Red=Cloning site Green=Tags(s)

MADQAPFDTDVNTLTRFVMEGRKARGTGELTQLLNSLCTAVKAISSAVRKAGIAHLYGIAGSTNVTGDQ
 VKKLDVLSNDLVMNMLKSSFATCVLVSEEDKHAIIIVEPEKRGKYVVCDFPLDGSSNIDCLVSVGTIFGIY
 RKKSTDEPSEKDALQPRNLVAAGYALYGSATMLVLAMDCGVNCFMLDPAIGEFILVDKDKVKKKKGKIY
 SLNEGYARDFDPAVTEYIQRKKFPPDNSAPYGARVYVGSVMADVHRTL VYGGIFLYPANKKSPNGKLRLLY
 ECNPMAYMEKAGGMATTGKEAVLDVIPTDIHQRAPVILGSPDDVLEFLKYYEKHSAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6522_f08.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_000507

ORF Size: 1014 bp

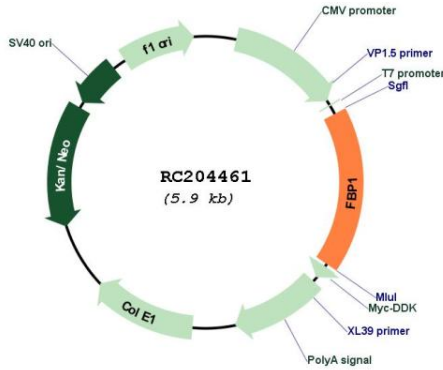
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

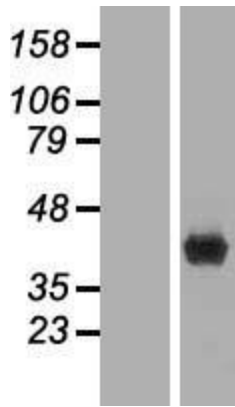
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000507.4
RefSeq Size:	1647 bp
RefSeq ORF:	1017 bp
Locus ID:	2203
UniProt ID:	P09467
Cytogenetics:	9q22.32
Domains:	FBPase
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Pentose phosphate pathway
MW:	36.8 kDa
Gene Summary:	Fructose-1,6-bisphosphatase 1, a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis. [provided by RefSeq, Jul 2008]

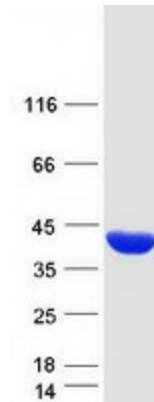
Product images:



Circular map for RC204461



Western blot validation of overexpression lysate (Cat# [LY426827]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225497] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FBP1 protein (Cat# [TP304461]). The protein was produced from HEK293T cells transfected with FBP1 cDNA clone (Cat# RC204461) using MegaTran 2.0 (Cat# [TT210002]).