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Product datasheet for RG204461

FBP1 (NM_000507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBP1 (NM_000507) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBP1
Synonyms:	FBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204461 representing NM_000507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGACCAGGCGCCCTTCGACACGGACGTCAACACCCTGACCCGCTTCGTCATGGAGGAGGGCAGGA
AGGCCCGCGGCACGGGCGAGTTGACCCAGCTGCTCAACTCGCTCTGCACAGCAGTCAAAGCCATCTCTTC
GGCGGTGCGCAAGGCGGGCATCGCGCACCTCTATGGCATTGCTGGTTCTACCAACGTGACAGGTGATCAA
GTTAAGAAGCTGGACGTCCTCTCCAACGACCTGGTTATGAACATGTTAAAGTCATCCTTTGCCACGTGTG
TTCTCGTGTCAGAAGAAGATAAACACGCCATCATAGTGGAACCGGAGAAAAGGGGTAAATATGTGGTCTG
TTTTGATCCCCTTGATGGATCTTCCAACATCGATTGCCTTGTGTCCGTTGGAACCATTTTTGGCATCTAT
AGAAAGAAATCAACTGATGAGCCTTCTGAGAAGGATGCTCTGCAACCAGGCCGGAACCTGGTGGCAGCCG
GCTACGCACTGTATGGCAGTGCCACCATGCTGGTCCTTGCCATGGACTGTGGGGTCAACTGCTTCATGCT
GGACCCGGCCATCGGGGAGTTCATTTTGGTGGACAAGGATGTGAAGATAAAAAAGAAAGGTAAAATCTAC
AGCCTTAACGAGGGCTACGCCAGGGACTTTGACCCTGCCGTCACTGAGTACATCCAGAGGAAGAAGTTCC
CCCCAGATAATTCAGCTCCTTATGGGGCCCGGTATGTGGGCTCCATGGTGGCTGATGTTCATCGCACTCT
GGTCTACGGAGGGATATTTCTGTACCCCGCTAACAAGAAGAGCCCCAATGGAAAGCTGAGACTGCTGTAC
GAATGCAACCCCATGGCCTACGTCATGGAGAAGGCTGGGGGAATGGCCACCACTGGGAAGGAGGCCGTGT
TAGACGTCATTCCCACAGACATTCACCAGAGGGCGCCGGTGATCTTGGGATCCCCCGACGACGTGCTCGA
GTTCCTGAAGGTGTATGAGAAGCACTCTGCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

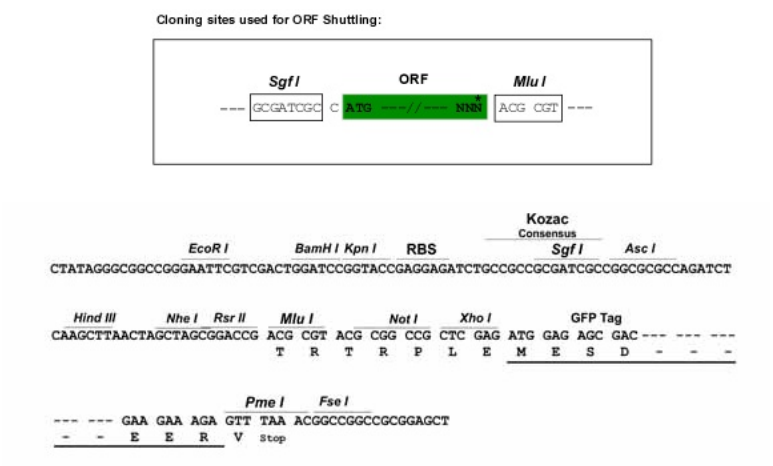
>RG204461 representing NM_000507
Red=Cloning site Green=Tags(s)

MADQAPFDTDVNTLTRFVMEEGRKARGTGELTQLLNSLCTAVKAISSAVRKAGIAHLYGIAGSTNVTGDQ
VKKLDVLSNDLVMNMLKSSFATCVLVSEEDKHAIIVEPEKRGKYVVCFDPLDGSSNIDCLVSVGTIFGIY
RKKSTDEPSEKDALQPGRNLVAAGYALYGSATMLVLAMDCGVNCFMLDPAIGEFILVDKDVKIKKKGKIY
SLNEGYARDFDPAVTEYIQRKKFPPDNSAPYGARYVGSMVADVHRTLVYGGIFLYPANKKSPNGKLRLLY
ECNPMAYVMEKAGGMATTGKEAVLDVIPTDIHQRAPVILGSPDDVLEFLKVYEKHSAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 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_000507.4

RefSeq Size: 1527 bp

RefSeq ORF: 1017 bp

Locus ID: 2203

UniProt ID: P09467

Cytogenetics: 9q22.32

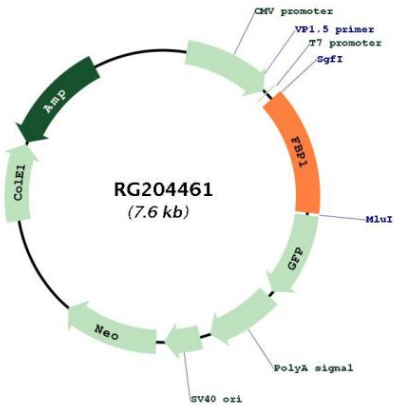
Domains: FBPase

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Pentose phosphate pathway

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 RG204461