

Product datasheet for RC200819

FGFBP1 (NM 005130) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FGFBP1 (NM_005130) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: FGFBP1

Synonyms: FGF-BP; FGFBP; FGFBP-1; HBP17

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC200819 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGAAGATCTGTAGCCTCACCCTGCTCTCCTTCCTCCTACTGGCTGCTCAGGTGCTCCTGGTGGAGGGGA
AAAAAAAAGTGAAGAATGGACTTCACAGCAAAGTGGTCTCAGAACAAAAGGACACTCTGGGCAACACCCA
GATTAAGCAGAAAAAGCAGGCCCGGGAACAAAGGCAAGTTTGTCACCAAAAGACCAAGCCAACTGCAGATGG
GCTGCTACTGAGCAGGAGGAGGAGGGCATCTCTCTCAAGGTTGAGTGCACTCAATTGGACCATGAATTTTCCT
GTGTCTTTGCTGGCAATCCAACCTCATGCCTAAAGCTCAAGGATGAGAGAGTCTATTGGAAACAAGTTGC
CCGGAATCTGCGCTCACAGAAAGACATCTGTAGATATTCCAAGACAGCTGTGAAAACCAGAGTGTGCAGA
AAGGATTTTCCAGAATCCAGTCTTAAGCTAGTCAGCTCCACTCTATTTGGGAACACAAAGCCCAGGAAGG
AGAAAACAGAGATGTCCCCCAGGGAGCACATCAAGGGCAAAGAGCCACCCCCTCTAGCCTAGCAGTGAC
CCAGACCATGGCCACCAAAGCTCCCGAGTGTTGTGGAGGACCCAGATATTGGCAAACCAGAGGAAGACTGCC
CTGGAGTTCTGTGGAGAGACTTGGAGCTCTCTCTCTCCACATTCTTCCTCAGCATAGTGCAGGACACCGTCAT
GC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com **Protein Sequence:** >RC200819 protein sequence

Red=Cloning site Green=Tags(s)

MKICSLTLLSFLLLAAQVLLVEGKKKVKNGLHSKVVSEQKDTLGNTQIKQKSRPGNKGKFVTKDQANCRW AATEQEEGISLKVECTQLDHEFSCVFAGNPTSCLKLKDERVYWKQVARNLRSQKDICRYSKTAVKTRVCR KDFPESSLKLVSSTLFGNTKPRKEKTEMSPREHIKGKETTPSSLAVTQTMATKAPECVEDPDMANQRKTA LEFCGETWSSLCTFFLSIVQDTSC

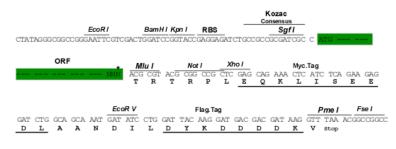
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6057 f01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_005130

ORF Size: 702 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: <u>NM 005130.2</u>

 RefSeq Size:
 1369 bp

 RefSeq ORF:
 705 bp

 Locus ID:
 9982

 UniProt ID:
 Q14512

 Cytogenetics:
 4p15.32

Protein Families: Secreted Protein

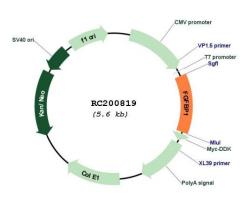
MW: 26.3 kDa

Gene Summary: This gene encodes a secreted fibroblast growth factor carrier protein. The encoded protein

plays a critical role in cell proliferation, differentiation and migration by binding to fibroblast growth factors and potentiating their biological effects on target cells. The encoded protein may also play a role in tumor growth as an angiogenic switch molecule, and expression of this gene has been associated with several types of cancer including pancreatic and colorectal adenocarcinoma. A pseudogene of this gene is also located on the short arm of chromosome

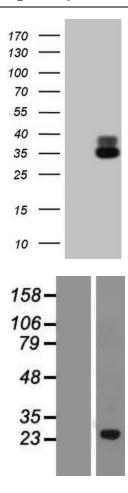
4. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC200819





HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FGFBP1 (Cat# RC200819, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FGFBP1 (Cat# [TA808309])(1:2000). Positive lysates [LY417486] (100ug) and [LC417486] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY417486]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200819 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).