

Product datasheet for **RC203797**

IGFBP5 (NM_000599) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IGFBP5 (NM_000599) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IGFBP5
Synonyms: IBP5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC203797 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGTGCTCACCGCGGTCTCCTGCTGCTGGCCGCCTATGCGGGGCCGGCCAGAGCCTGGGCTCCT
TCGTGCACTGCGAGCCCTGCGACGAGAAAGCCCTCTCCATGTGCCCCCAGCCCCCTGGGCTGCGAGCT
GGTCAAGGAGCCGGGCTGCGGCTGCTGCATGACCTGCGCCCTGGCCGAGGGGCAGTCGTGCGGCGTCTAC
ACCGAGCGCTGCGCCAGGGGCTGCGCTGCCTCCCCGGCAGGACGAGGAGAAGCCGCTGCACGCCCTGC
TGCACGGCCGCGGGTTTGCCTCAACGAAAAGAGCTACCGCGAGCAAGTCAAGATCGAGAGAGACTCCCG
TGAGCACGAGGAGCCACCACCTCTGAGATGGCCGAGGAGACTACTCCCCAAGATCTTCCGGCCAAA
CACACCCGATCTCCGAGCTGAAGGCTGAAGCAGTGAAGAAGGACCGCAGAAAGAAGCTGACCCAGTCCA
AGTTTGTGCGGGGAGCCGAGAACAACCTGCCACCCCGGATCATCTCTGCACCTGAGATGAGACAGGAGTC
TGAGCAGGGCCCTGCCGAGACACATGGAGGCTTCCCTGCAGGAGCTCAAAGCCAGCCACGCATGGTG
CCCCGTGCTGTGTACCTGCCAATTGTGACCGCAAAGGATTCTACAAGAGAAAGCAGTGCAAACCTTCCC
GTGGCCGCAAGCGTGCCATCTGCTGGTGGTGGACAAGTACGGGATGAAGCTGCCAGGCATGGAGTACGT
TGACGGGGACTTTCAGTGCCACACCTTCGACAGCAGCAACGTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203797 protein sequence
 Red=Cloning site Green=Tags(s)

MVLLTAVLLLLLAAYAGPAQSLGSFVHCEPCDEKALSMCPPSPLGCELVKEPGCGCCMTCALAEQSCGVY
 TERCAQGLRCLPRQDEEKPLHALLHGRGVCLNEKSYREQVKIERDSREHEEPTTSEMAEETYSPKIFRPK
 HTRISELKAEAVKKDRRKKLTQSKFVGAENTAHPRIIISAPEMRQESEQGPCRRHMEASLQELKASPRMV
 PRAVYLPNCDRKGfYKRKQCKPSRGRKRGICWCVDKYGMKLPGMEYVDGDFQCHTFDSSNVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

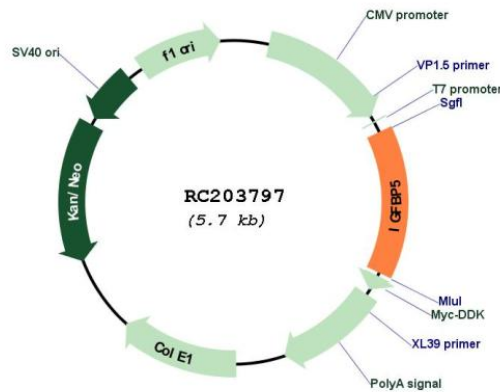
Chromatograms: https://cdn.origene.com/chromatograms/mk6088_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

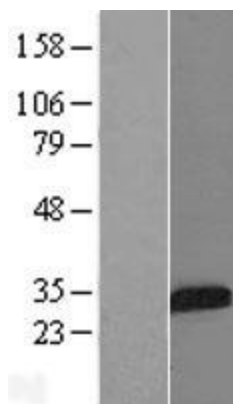


Plasmid Map:



ACCN: NM_000599

ORF Size:	816 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.
RefSeq:	NM_000599.3
RefSeq Size:	6333 bp
RefSeq ORF:	819 bp
Locus ID:	3488
UniProt ID:	P24593
Cytogenetics:	2q35
Domains:	thyroglobulin_1, IB
Protein Families:	Druggable Genome, Secreted Protein
MW:	30.6 kDa
Gene Summary:	IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors.[UniProtKB/Swiss-Prot Function]

Product images:

Western blot validation of overexpression lysate (Cat# [LY424616]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203797 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).