

Product datasheet for **RC202573**

IGFBP2 (NM_000597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGFBP2 (NM_000597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IGFBP2
Synonyms:	IBP2; IGF-BP53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202573 representing NM_000597 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCGAGAGTGGGCTGCCCGCGCTGCCGCTGCCGCGCCGCCGCTGCTGCCGCTGCTGCCGCTGC
TGCTGTGCTACTGGGCGGAGTGGCGGCGCGCGGGCGCGCGGAGGTGCTGTTCCGCTGCCCGCC
CTGCACACCCGAGCGCTGGCCGCTGCCGGCCCCCGCCGTTGCGCCGCCCGCCGGTGGCCGAGTG
GCCGGAGGCGCCCGCATGCCATGCGCGGAGCTCGTCCGGAGCCGGGCTGCGGCTGCTCGGTGTGCC
CCCGGCTGGAGGCGAGGCGTGCAGGCTACACCCCGCTGCCGCCAGGGGCTGCGTCTATCCCCA
CCCGGGCTCCGAGCTGCCCTGCAGGCGCTGGTATGGGCGAGGGCACTTGTGAGAAGCGCCGGGACGCC
GAGTATGGCGCCAGCCCGAGCAGGTTGCAGACAATGGCGATGACCACTCAGAAGGAGGCCCTGGTGGAGA
ACCACGTGGACAGCACCATGAACATGTTGGGCGGGGAGGCGAGTCTGGCCGGAAGCCCTCAAGTCGGG
TATGAAGGAGCTGGCCGTGTTCCGGGAGAAGGTCACTGAGCAGCACCGGCAGATGGGCAAGGGTGGCAAG
CATCACCTGGCCTGGAGGAGCCCAAGAAGTGCAGCACCCCTGCCAGGACTCCCTGCCAACAGGAAC
TGGACCAGTCTGGAGCGGATCTCCACATGCGCCTTCCGGATGAGCGGGGCCCTGGAGCACCTTA
CTCCCTGCACATCCCCAACTGTGACAAGCATGGCTGTACAACCTCAAACAGTGAAGATGTCTCTGAAC
GGGCAGCTGGGAGTGTGGTGTGAACCCCAACCCGGGAAGCTGATCCAGGGAGCCCCACCATCC
GGGGGACCCCGAGTGTATCTTCTACAATGAGCAGCAGGAGGCTCGCGGGTGCACACCCAGCGGAT
GCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202573 representing NM_000597
Red=Cloning site Green=Tags(s)

MLPRVGC PALPLPPPPLPLPLLLLLL GASGGGGGARA E V L F R C P P C T P E R L A A C G P P P V A P P A A V A A V
 A G G A R M P C A E L V R E P G C G C C S V C A R L E G E A C G V Y T P R C G Q G L R C Y P H P G S E L P L Q A L V M G E T C E K R R D A
 E Y G A S P E Q V A D N G D D H S E G G L V E N H V D S T M N M L G G G S A G R K P L K S G M K E L A V F R E K V T E Q H R Q M G K G G K
 H H L G L E E P K K L R P P P A R T P C Q Q E L D Q V L E R I S T M R L P D E R G P L E H L Y S L H I P N C D K H G L Y N L K Q C K M S L N
 G Q R G E C W C V N P N T G K L I Q G A P T I R G D P E C H L F Y N E Q Q E A R G V H T Q R M Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3165_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000597

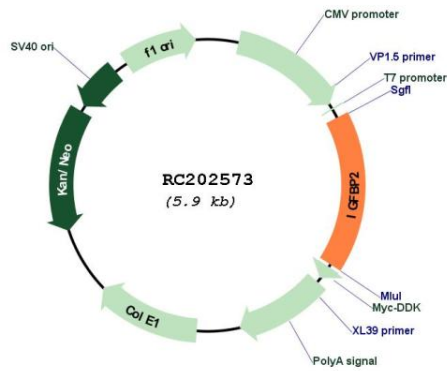
ORF Size: 984 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

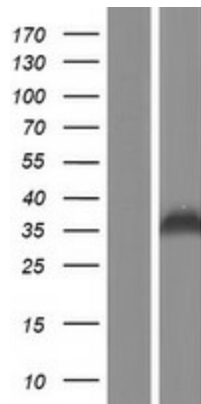
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_000597.2 , NP_000588.2
RefSeq Size:	1439 bp
RefSeq ORF:	978 bp
Locus ID:	3485
UniProt ID:	P18065
Cytogenetics:	2q35
Domains:	thyroglobulin_1, IB
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein
MW:	35 kDa
Gene Summary:	The protein encoded by this gene is one of six similar proteins that bind insulin-like growth factors I and II (IGF-I and IGF-II). The encoded protein can be secreted into the bloodstream, where it binds IGF-I and IGF-II with high affinity, or it can remain intracellular, interacting with many different ligands. High expression levels of this protein promote the growth of several types of tumors and may be predictive of the chances of recovery of the patient. Several transcript variants, one encoding a secreted isoform and the others encoding nonsecreted isoforms, have been found for this gene. [provided by RefSeq, Sep 2015]

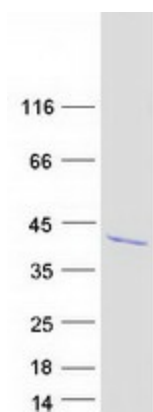
Product images:



Circular map for RC202573



Western blot validation of overexpression lysate (Cat# [LY424614]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202573 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IGFBP2 protein (Cat# [TP302573]). The protein was produced from HEK293T cells transfected with IGFBP2 cDNA clone (Cat# RC202573) using MegaTran 2.0 (Cat# [TT210002]).