

## Product datasheet for **RC239064**

### IGF2BP2 (NM\_001291869) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2BP2 (NM_001291869) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IGF2BP2
Synonyms:	IMP-2; IMP2; VICKZ2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239064 representing NM\_001291869  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGAACAAGCTTTACATCGGGAACCTGAGCCCCGCCGTACCGCCGACGACCTCCGGCAGCTCTTTG  
 GGGACAGGAAGCTGCCCTGGCGGGACAGTCTGCTGAAGTCCGGCTACGCCTTCGTGGACTACCCGA  
 CCAGAACTGGGCCATCCGCGCCATCGAGACCCTCTCGGGTAAAGTGAATTGCATGGAAAAATCATGGAA  
 GTTGATTACTCAGTCTCTAAAAAGCTAAGGAGCAGGAAAAATTCAGATTGAAACATCCCTCCTCACCTGC  
 AGTGGGAGGTGTTGGATGGACTTTGGCTCAATATGGGACAGTGGAGAATGTGGAACAAGTTTTTGCCTT  
 TTCCCTAGTCAACACAGACACAGAAACCGCGTTGTCAACGTACATATGCAACAAGAGAAGAAGCAAAA  
 ATAGCCATGGAGAAGCTAAGCGGCATCAGTTGAGAATACTCCTTCAAGATTTCTACATCCCGGATG  
 AAGAGGTGAGCTCCCTTCGCCCCCTCAGCGAGCCAGCGTGGGACCCTTTCCCGGGAGCAAGGCCA  
 CGCCCCGGGGCACTTCTCAGCCAGACAGATTGATTTCCCGCTGCGGATCCTGGTCCCCACCCAGTTT  
 GTTGGTGCATCATCGGAAAGGAGGGCTTGACCATAAAGAACATCACTAAGCAGACCCAGTCCCGGGTAG  
 ATATCCATAGAAAAGAGAAGCTCTGGAGCTGCAGAGAAGCCTGTACCATCCATGCCACCCAGAGGGGAC  
 TTCTGAAGCATGCCGCATGATTCTTGAATCATGCAGAAAAGGCGAGATGAGACCAAAGTAGCCGAAGAG  
 ATTCCTCTGAAAACTTTGGCACACAATGGCTTGGTTGGAAGACTGATTGGAAAAGAAGGCAGAAATTTGA  
 AGAAAATTGAACATGAAACAGGGACCAAGATAACAATCTCATCTTTGCAGGATTTGAGCATATACAACC  
 GGAAAGAACCATCACTGTGAAGGCACAGTTGAGGCCTGTGCCAGTGTGAGATAGAGATTATGAAGAAG  
 CTGCGTGAGGCCCTTTGAAAATGATATGCTGGCTGTTAACCAACAAGCCAATCTGATCCAGGGTTGAACC  
 TCAGCGCACTTGGCATCTTTTCAACAGGACTGTCGCTGCTATCTCCACCAGCAGGGCCCCGCGGAGCTCC  
 CCGCGTGCCTTACCACCCCTTCACTACCCACTCCGGATACTTCTCCAGCCTGTACCCCATACCAG  
 TTTGGCCCGTTCCCGCATCATCACTCTTATCCAGAGCAGGAGATTGTGAATCTTTCATCCCAACCCAGG  
 CTGTGGCGCCATCATCGGGAAGAAGGGGGCACACATCAAACAGCTGGCGAGATTCGCCGGAGCCTCTAT  
 CAAGATTGCCCTGCGGAAGGCCAGACGTGAGCGAAAGGATGGTCATCATCACCGGGCCACCGGAAGCC  
 CAGTTCAAGGCCAGGGACGGATCTTTGGGAAACTGAAAGAGGAAAATCTTTAAACCCAAAGAAGAAG  
 TGAAGCTGGAAGGCATATCAGAGTGCCTCTTCCACAGCTGGCCGGGTGATTGGCAAAGGTGGCAAGAC  
 CGTGAACGAACTGCAGAACTTAACCAGTGCAGAAGTATCGTGCCTCGTGACCAAACGCCAGATGAAAAT  
 GAGGAAGTGATCGTCAGAATTATCGGGCACTTCTTTGCTAGCCAGACTGCACAGCGCAAGATCAGGGAAA  
 TTGTACAACAGGTGAAGCAGCAGGAGCAGAAATACCCTCAGGGAGTCGCCTCACAGCGCAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239064 representing NM\_001291869  
 Red=Cloning site Green=Tags(s)

MMNKLYIGNLSPAVTADDLRQLFGRKPLLAGQVLLKSGYAFVDYPDQNWAIETLSGKVELHGKIME  
 VDYSVSKLRSRQIQIRNIPPHLQWEVLDGLLAQYGTVENVEQVFAFSLVNTDTEAVVNVYATREEAK  
 IAMEKLSGHQFENYSFKISYIPDEEVSSPSPQRAQRGDHSSREQGHAPGGTSQARQIDFPLRILVPTQF  
 VGAIIGKEGLTIKNITKQTQSRVDIHRKENSAAEKPVTIHATPEGTSEACRMILEIMQKEADETKLAEE  
 IPLKILAHNGLVGRIGKEGRNLKIEHETGKITISSLQDL SIYNPERTITVKGTVEACASAEIEIMKK  
 LREAFENDMLAVNQANLIPGLNLSALGIFSTGLSVLSPAGPRGAPPAAPYHPFTTHSGYFSSLYPHHQ  
 FGPFPHHHSYPEQEI VNLFIPTQAVGAIIGKKGAIKQLARFAGASIKIAPAEGPDVSERMVITGPPEA  
 QFKAQGRIFGKLEENFNPKKEEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNL TSAEVI VPRDQTPDEN  
 EEVIVRIIGHFFASQTAQRKIREIVQVQKQEQKYPQGVASQRSK

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

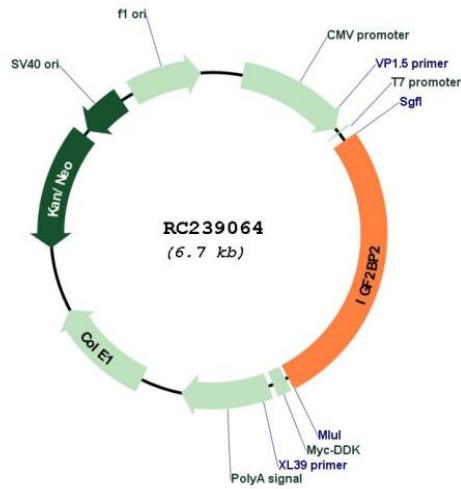
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001291869

ORF Size: 1815 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291869.3</a>
<b>RefSeq Size:</b>	3696 bp
<b>RefSeq ORF:</b>	1818 bp
<b>Locus ID:</b>	10644
<b>Cytogenetics:</b>	3q27.2
<b>MW:</b>	67.2 kDa
<b>Gene Summary:</b>	This gene encodes a protein that binds the 5' UTR of insulin-like growth factor 2 (IGF2) mRNA and regulates its translation. It plays an important role in metabolism and variation in this gene is associated with susceptibility to diabetes. Alternative splicing and promoter usage results in multiple transcript variants. Related pseudogenes are found on several chromosomes. [provided by RefSeq, Sep 2016]