

## Product datasheet for **RN216841**

### Igf2bp2 (NM\_001270599) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igf2bp2 (NM_001270599) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Igf2bp2
Synonyms:	RGD1305614
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN216841 representing NM\_001270599  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTTGATTACTCAGTCTCTAAAAAGCTAAGGAGCAGAAAAATCCAGATTCCGAAACATCCCGCCTC  
 ACCTGCAGTGGGAGGTGTTGGATGGCCTGTTGGCTGAGTATGGGACGGTAGAGAACGTGGAGCAAGTCAA  
 CACGGACACAGAAACAGCCGTTGTCAACGTCACCTATATGACAAGGGAAGAGGCAAGGTAGCTATTGAG  
 AAGTTAAGTGGGCATCAGTTCGAGGACTACTCCTTCAAGATTTCTACATCCCGACGAAGAATTGAGCT  
 CCCCTTACCCCCCTCATCGAGCCCGGGAACAAGGCCATGGCCCCGGGAGCTTTCTCAGGCCAGACAGAT  
 TGACTTCCCGCTGAGGATCCTGGTCCCCACCCAGTTTGTGGTGCATCATCGGAAAGGAGGGCTTGACC  
 AATAAGAACATCACTAACAGACCCAGTCCCGGTAGACATCCACAGGAAGGAGAACTCTGGGGCTGCCG  
 AGAAGCCTGTACAATCCAGCCACCCAGAAGGGACATCTGAAGCCTGCCGATGATTCTTGAGATTAT  
 GCAGAAAGAGGCTGATGAGACAAACTGGCAGAAGAGGTTCTTTGAAAATCTTGCCCCACAACGGCTTC  
 GTCGGAAGACTGATTGGCAAAGAAGGCAGAAACCTGAAGAAAATTGAACACGAGACAGGGACCAAGATAA  
 CTATCTCATCCTTGCAGGATTTGAGCATATATAACCCCGAGAGAACCATCACGGTAAAGGTACCATTGA  
 AGCCTGTGCCAGTGTGAGATGGAGATTATGAAGAAGCTACGCGAGGCCCTTTGAAAACGACATGCTGGCC  
 GTTAATCAACAAGCCAATCTGATCCCAGGGCTGAACCTCAGTGCCTCGGCATCTTTTCGACAGGACTGT  
 CTGTGCTTCTCCACCAGCAGGGCCCCGTGGAGCTCCCCCGAGTCCCCCTATCACCCATTTGCTACCCA  
 CTCCGGATACTTCTCCAGTCTGTACCCTCATCACCATTTCCGCCATTCCCGCATCACCCTCGTACCCA  
 GAGCAAGAGACGGTGAGTCTCTTATCCCAACGCAGGCTGTGGTGCTATCATCGGGAAAAAGGGGGCAC  
 ACATCAAACAGCTGGCTCGATTTGCCGGTCCCTCAAGATCGCTCCAGCGGAAGGTCCAGATGTCAG  
 TGAGAGGATGGTCATCATCACCGGGCTCTGAAGCCCAGTTCAAGGCTCAGGGACGGATCTTTGGGAAA  
 CTGAAAGAAGAAAACCTTCTTAAATCCCAAAGAAGAGGTGAAGCTGGAGGCCACATCCGAGTTCCCTCCT  
 CGACAGCTGGCCGGTGATTGGCAAAGCGGTAACCCTAAATGAGCTGCAGAATTGACAAGTGCAGA  
 AGTTATAGTGCCTCGTGACCAAACGCCAGATGAGAACGAGGAAGTATCGTGCAGAAATTCGGGCATTTT  
 TTTGCTAGCCAGACTGCACAACGCAAGATCAGGGAAATGTACAGCAGGTGAAGCAGCAGGGCGCAGAAAT  
 ACCCTCAGGGAGTCGCCACAGCGCAGCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001270599

**Insert Size:** 1575 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001270599.1](#), [NP\\_001257528.1](#)

**RefSeq Size:** 3629 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 303824

**Cytogenetics:** 11q23

**Gene Summary:** The protein encoded by this gene is a member of a family of mRNA binding proteins that have been shown to bind to several different mRNAs in mammalian cells, including insulin-like growth factor 2 mRNA. Generation of two different isoforms by alternative translation initiation at an internal start codon, has been described for this gene (PMID:22427968). [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (1) uses an in-frame downstream start codon, and encodes a shorter isoform (2) missing N-terminal 68 aa compared to isoform 1. It lacks a conserved N-terminal RNA Recognition Motif (RRM) and is predicted to differ functionally from the full-length isoform (PMID:22427968). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.