

Product datasheet for **MR208687**

Igf2bp2 (NM_183029) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igf2bp2 (NM_183029) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igf2bp2
Synonyms:	C330012H03Rik; IMP-2; Imp2; Neilsen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208687 representing NM_183029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGAACAAGCTGTACATTGGGAACCTGAGCCCCGCCGTACCGCCGACGACCTCCGGCAGCTCTTCG
 GGGACAGGAAGCTGCCCCTGCGGGACAGTCTCTCAAGTCCGGCTACGCCTTCGTGGACTACCCCGA
 CCAGAACTGGGCCATCCGCGCCATCGAGACCCTCTCGGGTAAAGTGAATTGCATGGGAAAAATCATGGAA
 GTTGACTACTCAGTCTCTAAAAAGCTAAGGAGCAGAAGAATCCAGATTCGGAACATCCCGCTCACCTGC
 AGTGGGAGGTGTTGGATGGGCTGTTGGCTGAATATGGGACAGTGGAGAACGTGGAGCAAGTCAACACAGA
 TACAGAAACTGCCGTTGTCAACGTCACCTATATGACAAGAGAAGAGGCAAAGCTAGCTATTGAGAAGCTC
 AGTGGGCATCAGTTTGAGGACTACTCCTCAAGATTTCTACATCCCGATGAAGAGGTGAGCTCTCCTT
 CACCCCTCATCGTGCCCGGAACAAGGCCACGGCCCCGGGAGCTTTCTCAGGCCAGACAGATTGATTT
 CCCGCTGCGGATCCTGGTCCCCACCCAGTTTGTGGTGCATCATCGGAAAGGAGGGCTTGACCATAAAG
 AACATCACTAAGCAGACCAGTCCCGGGTAGACATCCACAGAAAGGAGAACTCTGGGGCTGCAGAGAAGC
 CTGTACAAATCCATGCTACCCAGAAAGGACATCTGAAGCATGCCGCATGATTCTTGAGATTATGAAAAA
 AGAAGCTGATGAGACAAACTGGCTGAGGAGTTCTCTGAAAATCCTGGCCACAATGGCTTCGTTGGA
 AGACTGATTGGCAAAGAAGGCAGAAACCTGAAGAAAATAGAACATGAGACAGGGACCAAGATAACCATCT
 CATCCTTGAGGATTTGAGCATTATAACCCCGAGAGAACCATCACCGTGAGGGGCACCATTTGAGCCTG
 TGCCAAATGCTGAGATAGAGATTAGAAGAAGCTCCGAGAGGCCTTTGAGAACGACATGCTGGCCGTTAAC
 CAACAAGCCAATCTGATCCAGGGCTAAACCTCAGTGCCTTGGCATCTTTTCGACTGGACTGTCTGTGC
 TTCTCCACCAGCAGGGCCCCGTGGAGTCCCCCAGTCTCCCTATCACCCCTTTGCTACCCACCCCGG
 ATACTTCCAGTCTGTACCCTCATACCATTTTCGGCCATTCCACATCATCACTCCTACCCAGAGCAG
 GAGACTGTAAGTCTTTCATCCCAACCCAGGCTGTGGGTGCTATCATCGGGAAGAAGGGGCACACATCA
 AACAGCTCGCTCGATTTGCTGGTGCCTCCATCAAGATTGCTCCAGCAGAAGGTCCAGATGTCAGTGAGAG
 GATGGTCATCACTGGTCTCCTGAAGCCAGTTTAAGGCTCAGGGACGGATCTTTGGGAAACTGAAG
 GAAGAAAATTCTTTAATCCCAAAGAAGAAGTGAAGCTGGAGGCCACATCCGAGTCCCCTCGTCGACCG
 CTGGCCGGGTGATTGGCAAAGGGCGGAAAACCGTGAACGAGCTGCAGAACTTGACAAGTGCAGAAGTTAT
 CGTGCCTCGTGACCAAACGCCAGACGAGAATGAGGAAGTATCGTCAGAATTATCGGGCATTTTTTGCT
 AGCCGACTGCACAACGCAAGATCAGGGAAATTGTACAGCAGGTGAAGCAGCAGGAGCAGAGATACCCCT
 AGGGAGTCGCCCCACAGCGCAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208687 representing NM_183029
 Red=Cloning site Green=Tags(s)

MMNKLYIGNLSPAVTADDLRQLFGDRKLPLAGQVLLKSGYAFVDYDPQNWAIETLSGKVELHGKIME
 VDYSVSKLRSRRIQIRNIPPHLQWEVLDGLLAEYGTVENVEQVNTDTETAVVNVYMTREEAKLAEIKL
 SGHQFEDYSFKISYIPDEEVSSPSPHRAREQGHGPGSSQARQIDFPLRILVPTQFVGAIIIGKEGLTIK
 NITKQTQSRVDIHRKENSAAEKPVTIHATPEGTSEACRMILEIMQKEADETKLAEVPLKILAHNGFVG
 RLIGKEGRNLKKIEHETGKITISSLQDL SIYNPERTITVRGTIEACANAIEIEMKKLREAFENDMLAVN
 QQANLIPGLNLSALGIFSTGLSVLPPPAGPRGVPSPYPHFATHSGYFSSLYPHHHFGFPFHHSYPEQ
 ETVSLFIPTQAVGAIIGKKGAIKQLARFAGASIKIAPAEKPDVSEKRVITGPPEAQFKAQGRIFGKLLK
 EENFFNPKKEVKLEAHIRVPSSTAGRVIGKGGKTVNELQNL TSAEIVIPRDQTPDENEEVIRIIGHFFA
 SQTARQKIREIVQQVQEQRYYPQGVAPQRSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_183029

ORF Size: 1776 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).

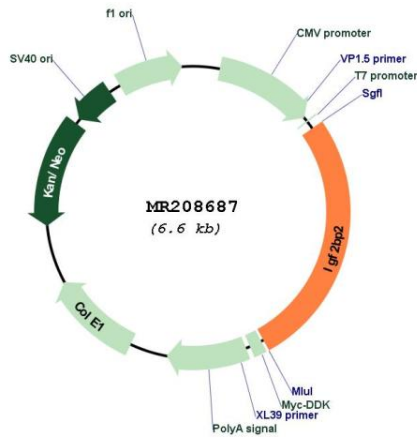
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_183029.2](#), [NP_898850.2](#)

RefSeq Size: 3902 bp
 RefSeq ORF: 1779 bp
 Locus ID: 319765
 UniProt ID: [Q5SF07](#)
 Cytogenetics: 16 B1
 MW: 66 kDa

Gene Summary: RNA-binding factor that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcript 'caging' into mRNPs allows mRNA transport and transient storage. It also modulates the rate and location at which target transcripts encounter the translational apparatus and shields them from endonuclease attacks or microRNA-mediated degradation (By similarity). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. Binding is isoform-specific. Binds to beta-actin/ACTB and MYC transcripts (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208687