OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR209083

Igf2bp3 (NM_023670) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igf2bp3 (NM_023670) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igf2bp3
Synonyms:	2610101N11Rik; AA522010; AL022933; AU045931; IMP-3; IMP3; Koc13; mimp3; Neilsen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR209083 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAAATTGTACATCGGGAACCTCAGCGACCACGCCGGCCCCGCGGACCTGGAAAGTGTCTTCAAGG
ACGCTAAGATCCCGGTGGCGGGCCCCTTCCTGGTGAAGACGGGCTACGCGTTCGTGGACTGCCCGGACGA
GGGCTGGGCCCTCAAGGCCATCGAGGCGCTTTCAGGTAAAATGGAACTACATGGGAAACCGATGGAAGTT
GAGCACTCGGTCCCTAAACGGCAGAGGATTCGTAAACTTCAGATACGAAATATCCCGCCCCACTTACAAT
GGGAGGTGCTGGATAGTTTACTAGTCCAGTATGGAGTGGTGGAGAGCTGTGAGCAAGTGAACACGGATTC
GGAAACGGCAGTTGTAAATGTAACCTATTCCAGTAAGGACCAAGCTAGACAAGCCTTAGACAAACTGAAT
GGATTCCAGTTAGAGAACTTCACCTTGAAGGTTGCCTACATCCCAGATGAAACTGCTGCCCAGCAAAATC
CCTCGCCACAGCTCCGGGGGCGCCGGGGGCCAGGGCAGCGGGGCTCATCCAGGCAGGCGTCTCCAGGATC
GGTGTCCAAGCAGAAACCCTGTGACCTGCCACTGCGCCTGCTGGTTCCCACCCAGTTTGTTGGAGCCATT
ATAGGAAAAGAAGGTGCTACCATTCGCAACATCACAAAGCAGACCCAGTCTAAAATCGATGTCCATCGTA
AGGAGAATACAGGGGCCGCGGAGAAGTCCATTACTATCCTCTCTACCCCTGAAGGCACCTCTGCAGCTTG
TAAGTCTATTCTGGAGATTATGCATAAGGAAGCTCAAGATATAAAATTCACAGAGGAGATTCCCTTGAAG
ATCTTAGCTCACAATAACTTTGTAGGCCGTCTCATTGGTAAAGAAGGAAGAAACCTTAAAAAAATCGAGC
AAGACACGGACACTAAAATCACAATATCTCCATTGCAGGAACTGACGCTGTACAATCCGGAACGCACCAT
TACAGTGAAAGGCAGTGTTGAGACGTGTGCCAAGGCGGAGGAGGAAATAATGAAGAAGATCAGGGAGTCT
TATGAAAATGATATTGCTTCCATGAATCTTCAAGCACATTTAATCCCTGGATTAAATCTGAATGCCTTGG
GTCTGTTCCCACCCACGTCAGGGATGCCACCTCCCACCTCAGGGCCCCCTTCAACCCTGACTCCTCCCTA
CCCACAATTTGAGCAATCAGAGACGGAGACTGTGCATCTGTTTATTCCCGCCCTGTCCGTTGGCGCCATC
ATTGGCAAGCAGGGCCAACACATCAAACAGCTTTCTCGCTTTGCGGGAGCTTCGATTAAGATCGCTCCAG
CCGAAGCACCAGATGCTAAAGTGCGGATGGTGATTATCACTGGACCACCAGAGGCTCAGTTCAAGGCTCA
GGGAAGAATTTATGGAAAAATTAAAGAAGAAAACTTTGTTAGTCCTAAAGAAGAGGTGAAACTTGAAGCT
CACATCAGAGTGCCGTCCTTTGCTGCTGGCAGAGTTATTGGGAAAGGAGGCAAAACGGTGAATGAGCTCC
AGAGTTTATCAAGTGCTGAAGTTGTCGTCCCCCGTGACCAGACACCTGATGAGAATGATCAAGTAGTTGT
CAAAATAACTGGCCACTTCTATGCTTGCCAGGTTGCCCAGAGGAAAATTCAGGAAATTCTGACTCAGGTA
AAGCAGCACCAGCAGCAGAAAGCTCTGCAGAGTGGACCACCTCAGTCAAGGCGGAAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

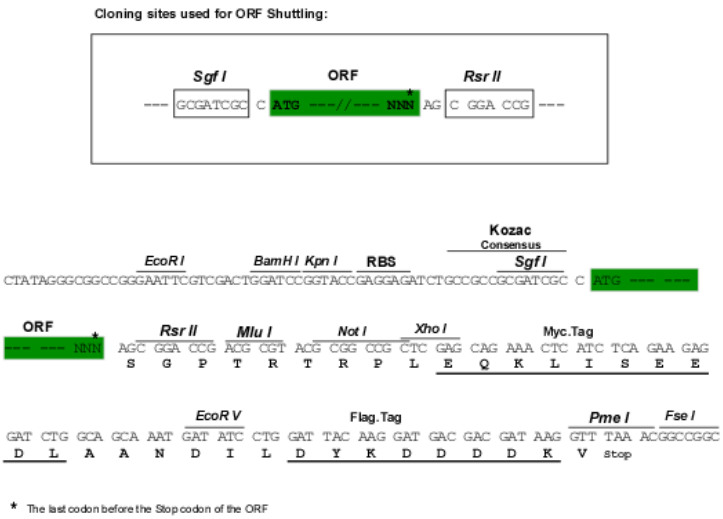
>MR209083 protein sequence
Red=Cloning site Green=Tags(s)

MNKLYIGNLSDHAGPADLESVFKDAKIPVAGPFLVKTGYAFVDCPDEGWALKAIEALSGKMELHGKPMEV
EHSVPKRQRIRKLQIRNIPPHLQWEVLDSLLVQYGVVESCEQVNTDSETAVVNVTYSSKDQARQALDKLN
GFQLENFTLKVAYIPDETAAQQNPSPQLRGRRGPGQRGSSRQASPGSVSKQKPCDLPLRLLVPTQFVGAI
IGKEGATIRNITKQTQSKIDVHRKENTGAAEKSITILSTPEGTSAACKSILEIMHKEAQDIKFTEEIPLK
ILAHNNFVGRLIGKEGRNLKKIEQDTDTKITISPLQELTLYNPERTITVKGSVETCAKAEEEIMKKIRES
YENDIASMNLQAHLIPGLNLNALGLFPPTSGMPPPTSGPPSTLTPPYPQFEQSETETVHLFIPALSVGAI
IGKQGQHIKQLSRFAGASIKIAPAEAPDAKVRMVIITGPPEAQFKAQGRIYGKIKEENFVSPKEEVKLEA
HIRVPSFAAGRVIGKGGKTVNELQSLSSAEVVVPRDQTPDENDQVVVKITGHFYACQVAQRKIQEILTQV
KQHQQQKALQSGPPQSRRK

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_023670

ORF Size: 1740 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.

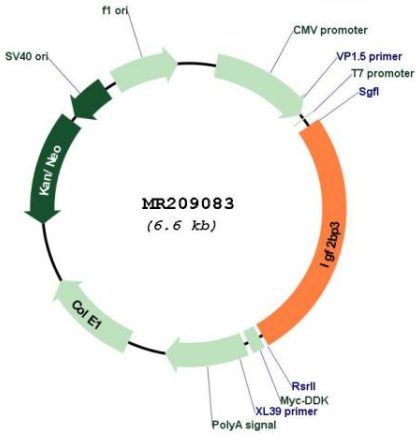
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_023670.3
RefSeq Size:	4366 bp
RefSeq ORF:	1740 bp
Locus ID:	140488
UniProt ID:	Q9CPN8
Cytogenetics:	6 23.82 cM
MW:	63.6 kDa
Gene Summary:	RNA-binding factor that may recruit 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. Binds to the 3' UTR of CD44 mRNA and stabilizes it, hence promotes cell adhesion and invadopodia formation (By similarity). Binds to beta-actin/ACTB and MYC transcripts (By similarity). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209083