

Product datasheet for MR211760

Itga2 (NM_008396) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga2 (NM_008396) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga2
Synonyms:	CD49B; DX5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211760 representing NM_008396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCGGGACAGGCAGGGGGCGCGCTCCTGCTGCGGCTGCTAATGCTAGTTCAAGGTATTTGAATT
GTCTGGCGTATAATGTTGGCCTCCAGGAGCGAAAATATTTCCGGGCCTCAAGTGAACAGTTTGGGTA
TTCAGTACAGCAGCTTACGAACCCACAAGGCACTGGCTACTGGTTGGTTCACCGTGGAGTGGCTTCCCT
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CAGGAATCCGGGGACCGGAGGCTTCTAACCTGTGGTCCCTCTCTGGGCACATCAGTGTGGAAATCAGTAT
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AGGCTTGGCCCTTCCCTCGTGGATGTTGTAGTTGTATGTGATGAATCAAACAGTATTTATCCTTGGGAAGC
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AGGCCACATCTGAGACCGCCAACATGGTGGGGACCTCACAAACACCTTCAGAGCTATCGAATTCGCAAG
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AAATGGCACAAGTTGGATTAGTGCAGATTACGCTCCTCAAAATGATATTCTGATGTTAGGTGCAGTGGG
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GTGCTGTGCTCAGTTGATGTAGATAAAGACACCATTACAGACGTGCTCCTGGTAGGTGCTCCTACATACA
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AGATGAGATGGATGAGACCACAGAACTCAACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211760 representing NM_008396
 Red=Cloning site Green=Tags(s)

MGPGQAGGALLRLMLVQGILNCLAYNVGLPGAKIFSGPSSSEQFGYSVQQLTNPQGNWLLVGGSPWGGFP
 ENRMGDVYKCPVDLPTATCEKLNQNSASISNVTEIKTNMSLGLTLTRNPGTGGFLTCGPLWAHQCGNQY
 YATGICSDVSPDFQLTFSFPAVQACPSLVVVVVVCDENSIYPWEAVKNFLVKFVTGLDIGPKKTQVAL
 IQYANPRIIFNLNDFETKEDMVQATSETRQHGDDLNTFRAIEFARDYAYSQTSGRPGATKVMVVVTD
 GESHDGSKLKTVIQCCNDEILRFGI AVLGYLNRNALDTKNLIKEIKAI ASTPTERYFFNVADEAALLEK
 AGTLGEQIFSI EGTVQGGDNFQMEMAQVGSADYAPQNDILMLGAVGAFDWSGTLVQETSHKPVIFPKQA
 FDQVLQDRNHSSFLGYSVAAISTEDGVHVFAGAPRANYTGQIVLYSVNKQGNVTVIQSHRGDQIGSYFGS
 VLCSVDVDKDTITDVLLVGAPTYMNDLKKEEGKYYLFTITKILNQHQLFEGPEGTGNARFGSAIAALSD
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 TDVSI GALGQVIQLWSQSIADVAIEALFTPDKITLLNKDAKITLKLCFRAEFRPAGQNNQVAILFNMTLD
 ADGHSSRVTSRQVFRNSERFLQKNMVVNEVQKCSEHHISIQKPSDVVNPLDLRVDISLENPGTSPALEA
 YSETVKVFSIPFYKECGSDGICISDLILDVQQLPAIQTQSFIVSNQNKRLTF SVILKNRGE SAYNTVVLA
 EFSENLFFASFMPVDGTEVTCEVGSSQKSVTCDVGYPAKSEQVTFITNFDFNLQNLQNAAINFQAF
 SESQETNKADNSVSLTIPLLYDAELHLTRSTNINFYEISSDENAPSVIKSVEDIGPKFIFSLKVTAGSAP
 VSMALVTIHIPQYTKENPLLYLTGIQTDQAGDISCTAEINPLKLPHTAPSVSFKNENFRHTKELDCRRT
 SCSNITCWLKDLHMAEYF INVTRVWNRFTAASFQTQVQLTAAAEIDTHNPQLFVIEENAVTIPLMIMK
 PTEKAEVPTGVIIGSIIAGILLLLAMTAGLWKLGFKRQYKMGQNPDEMDETTELNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9011_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

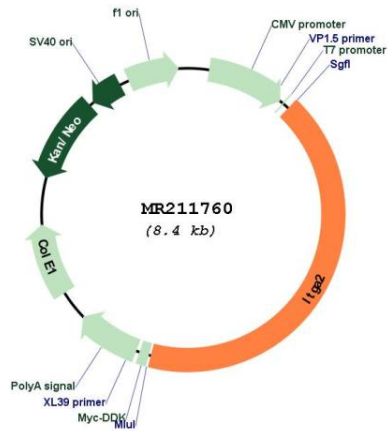


ACCN: NM_008396

ORF Size: 3534 bp

OTI Disclaimer:	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.
RefSeq:	NM_008396.3
RefSeq Size:	4235 bp
RefSeq ORF:	3537 bp
Locus ID:	16398
UniProt ID:	Q62469
Cytogenetics:	13 64.61 cM
MW:	129.4 kDa
Gene Summary:	Integrin alpha-2/beta-1 is a collagen receptor, being responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. It is also a receptor for laminins, collagen C-propeptides and E-cadherin. Mice homozygous for a null mutation in the alpha-2 die very early in embryogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211760