

Product datasheet for MR224505

Itga9 (NM_133721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga9 (NM_133721) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga9
Synonyms:	(alpha)9; 2610002H11Rik; 6720458D17Rik; AI461869; D9Ert428e; D130073C02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224505 representing NM_133721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGGCCGGCTGCGGCGGG[AT]CCGGCGCCGGAGGGCTCCGCGCGCTGCTGCTGGCGCTGGTGG
CCGCGGGGTCCCGCCGGCGCCTACAACCTGGACGCGCAGCGCCGGTACGTTCCAGGGCCCTCAGG
CTCCTTCTCGGCTACGCGGTGCTGGAGCACTTCCACGACAACACGCGCTGGTCTCGTGGGTGCACCG
AAGGCAGATTCTAAATATAGCACTTCAGTAAAGTCTCCTGGAGCTGTGTTAAGTGTCTGTCCATACCA
ACCCTGACCGGAGATGCACCGAGCTGGACATGGCTCGAGGGAGGACTCGTGGTCCGCCCTGTGGGAAGAC
CTGACGGGAGACCGGGATGACGAGTGGATGGGGGTGAGCCTGGCCCGCAGCCAGAGCAGATGGCCGT
GTTTTGGCCTGTGCCATCGTTGGAAGAACATCTACTACGAAGCAGACCACATCCTGCCCATGGATTCT
GCTACCTCATCCCTTCCAACCTCCAGGCCAAAGGCAAGGTGCTGATTCCTGCTACGAAGAGTATAAGAA
GAAGTATGGGGAAGAACATGGCTCCTGCCAGGCCGGAATAGCAGGCTTCTTACAGAGGAACTGGTGGTC
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TTAAGTTGAACGATGAAGCGATTATGAACAGACGGTATACTTATCTGGGCTATGCAGTGCAGGCTGGCCA
CTTCTCTCATCCATCCATCACTGATGTGGTAGGGGTGCCCCACAGGATGAAGGCATTGAAAGGTTTAT
ATATTTAGAGCTGACCGAAGATCAGGGACCTTAATAAGATCTTTCAGGCATCAGGAAAAAGATGGGCT
CTTACTTCGGCTCCTCCTTGTGTGCACTGACCTGAACATGGACGCGCTCTGACTTGCTCGTGGGGC
TCCCATGTTTTCTGAGATCAGAGATGAGGGCAGGTACCGTCTACCTCAACCAAGGACATGGAGCCCTC
GAGGAACAGCTGACCCTGACTGGAGATGCCGCTACAACGCGCACTTTGGGGAGAGCATCGCCAACCTGG
GCGACATTGATGATGACGGTTCCAGATGTGGCTGTCGGGGCACCTAAGGAGGAGGACTTTGCTGGCGC
AGTCTACATCTATCATGGTATGCCAATGGGATTGTCCCAAGTACTCAATGAAGCTGTCTGGGAGGAGG
CTAAACCCGACCCTGCGGATGTTGGGCGTCCATATCAGGGGGCATTGATATGGATGGAATGGCTATC
CTGATGTCACCATCGGAGCCTTCTGTCCGACAGCGTGGTTCTCCTCAGGGCCAGACCGGTATCAGCGT
GGATGTCTCCATCTTCTGCCAGGCTCCATCAACATCACAGCACCTCAGTGTACGATGGACAACAGCCT



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GTGAACTGCCTGAATGTCACCGTGTGCTCCGGTTCATGGCAAGAATGTACCAGGAGAAATCGGTCTGA
 ACTACAATCTGACGGCTGATGTGGCACAGAAGGAGAAGGGCCAGCTGCCAGAGTCTATTTTGTGTGT
 TGGAGAGACGGCAGGGCAGGTCTCAGAAAGGCTGCAGCTGCCACATGGACGAAGTGTGCATCACTAC
 GTGGCCACGTC AAGCGGAGAGTCCAGGATGTCATCAGCCCCATTGTGTTGAAGCCGCCTACAGCTGG
 ATGAGCATGTGATGGGTGAGGAAGACCGGGAGCTGCCAGACCTGACACCAGTGTTCGCTGGAAGAAGGG
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 CTGGAATCAGACTTCTCAAGTGCAGTGTGGGATTTCTTTTCATGAGGTCAAAGTCTAAGTATGAATTCA
 GTGTCATCTTTGATACAAGCCACCTGTCTGGGGAAGAGGAAATCTCAGCTTCATCGTGACTGCTCAGAG
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 CCCCTGCATCATCCCTCAAGAAACAAGAGAATCTTCCACACCATATTTGCTTTCTTCTCAAGTCTGG
 AAGAAAAGTGTGGACTGTGAAAAGCCAGGGAGCTTCTGCCTAACGTTGCACTGCAACCTTAGTGCTCTT
 CCGAAAGAGGAGACGCCACCATCAACCTATACATGCTACTGAACACAGAGATACTGAAGAAGGACAGCT
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 GTGGGTGGATCATCGCCATCAGTTTGTGGTGGGGATCCTCATTTTTCTGCTGCTGGCTGTGCTCCTGT
 GGAAGATGGGCTTCTTCCGAGAAGGTACAAGAGATCATTGAAGCTGAGAAAAACCGGAAAGAGAATGA
 AGATGGTTGGGACTGGTCCAGAAAAACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224505 representing NM_133721

Red=Cloning site Green=Tags(s)

MGGPAAARXXGAGGLRALLLALVAAGVPAGAYNLDAQRPVRFQGPSSFFGYAVLEHFDNTRWLVGAP
 KADSKYSTSVKSPGAVFKCRVHTNPDRRCTELDMARGRTRGAPCGKTCRGDRDDEWMGVSLARQPRADGR
 VLACAHRWKNIYYEADHILPHGFCYLIPSNLQAKGKVLIPCYEYKKKYGEHGSQCAGIAGFFTEELV
 MGAPGSFYWAGTLKVLNLDNTYFKLNDEAIMNRRYTYLGYAVTAGHFSHP SITDVVGGAPQDEGIGKVV
 IFRADRRSGTLIKIFQASGKKMGSYFGSSLCAVDLNDMDGLSDLLVGAPMFSEIRDEGQVTVYLNQGHGAL
 EEQLTLTGDAAYNAHFGESIANDLGDIDDDGFPDVAVGAPKEEDFAGAVYIYHGDANGIVPKYSMKLSGRR
 LNPTLRMFGQSIGGIDMDGNGYDPDVTIGAFLLSDSVVLLRARPVITVDVSIPLPGSINITAPQCHDQQP
 VNCLNVTVCFRFHGKNVPEIGLNYNLADVAQKEKQQLPRVYVLFGETAGQVSERLQLSHMDEVCHHY
 VAHVKRRVQDVISPIVFEAAYSLDEHVMGEEDREL PDLTPVLRWKKGQRISQKNQTVFERNCQSEDAAD
 LQLRGKLLLSSVDEKTPHLALGAVKNISLNIISLNGDDAYDANVSFNVSRELF INMWQKEEMGISCEL
 LESDFLKCSVGFPMRSKSKYEFVIFDTSHLGEEEEILSFIVTAQSGNLERSEALHDNTLTLTVPLVHE
 VDSITGIVSPTSFVYGESVDASNFIQLDDQECHFPQVNI TLQVYNMGPSTLPGSSVSI SFPSRLSPGGA
 EMFQVQDMVVSQEKGNCSLQRNPTPCIIPQEENIFHTIFAFFSKGRKVLDCPKGPFCLTLHCNLSAL
 PKEESRTINLYMLLNTEILKKS SVIQFMARAKVKVEPALRVVEIANGNPEETLVVFEALHNLEPRGYV
 VGWIIAISLLVGILIFLLLAVLLWKMGFFRRRYKEIIEAEKNRKENEDGWDWVQKNQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9012_a08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_133721

ORF Size: 3111 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:**
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_133721.2](#), [NP_598482.2](#)

RefSeq Size: 7001 bp

RefSeq ORF: 3111 bp

Locus ID: 104099

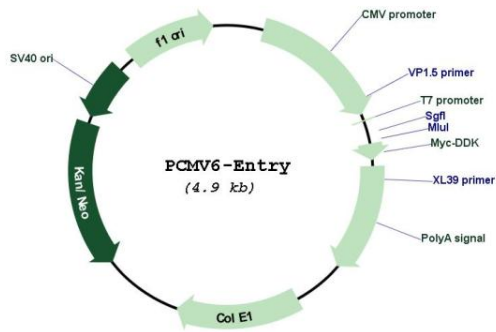
UniProt ID: [B8JK39](#)

Cytogenetics: 9 70.32 cM

MW: 114.9 kDa

Gene Summary: Integrin alpha-9/beta-1 (ITGA9:ITGB1) is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224505