

Product datasheet for **MG224505**

Itga9 (NM_133721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga9 (NM_133721) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itga9
Synonyms:	(alpha)9; 2610002H11Rik; 6720458D17Rik; AI461869; D9Ert428e; D130073C02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224505 representing NM_133721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCGGCCGGCTGCGGCGGGACCGGCGCCGGAGGGCTCCGCGCGCTGCTGCTGGCGCTGGTGGCCG
CGGGGGTCCCGGCCGGCGCTACAACCTGGACGCGCAGCGCCCGGTACGCTTCCAGGGCCCTCAGGCTC
CTTCTTCGGCTACGCGGTGCTGGAGCACTTCCACGACAACACGCGCTGGTCTCGTGGTGCACCGAAG
GCAGATTCTAAATATAGCACTTCAAGTCTCCTGGAGCTGTGTTAAGTGTCTGTCCATACCAACC
CTGACCGGAGATGCACCGAGCTGGACATGGCTCGAGGGAGGACTCGTGGTGCGCCCTGTGGGAAGACCTG
CAGGGGAGACCGGATGACGAGTGGATGGGGGTGAGCCTGGCCCGCAGCCAGAGCAGATGGCCGTGTT
TTGGCCTGTGCCATCGTTGGAAGAATCTACTACGAAGCAGACCACATCCTGCCCCATGGATTCTGCT
ACCTCATCCCTTCCAACCTCCAGGCCAAAGGCAAGGTGCTGATTCCCTGTACGAAGAGTATAAGAAGAA
GTATGGGAAGAACATGGCTCCTGCCAGGCCGGAATAGCAGGCTTCTTACAGAGGAACTGGTGGTCATG
GGTGGCCAGGCTCGTTTTATTGGGCTGGGACACTCAAGGTGCTGAACCTCACGGACAACACATATTTTA
AGTTGAACGATGAAGCGATTATGAACAGACGGTATACTTATCTGGGCTATGCAGTGACGGCTGGCCACTT
CTCTCATCCATCCATCACTGATGTGGTAGGGGTGCCCCACAGGATGAAGCATTGGAAAGGTTTATATA
TTTAGAGCTGACCGAAGATCAGGACCTTAGTAAAGATCTTTCAGGCATCAGGAAAAAGATGGGCTCTT
ACTTCGGCTCCTCCTTGTGTGCAGTGCACCTGAACATGGACGGCCTCTCTGACTTGTCTGTGGGGCTCC
CATGTTTTCTGAGATCAGAGATGAGGGGCAAGTACCCTACCTCAACCAAGGACATGGAGCCCTCGAG
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ACATTGATGATGACGGTTCCAGATGTGGCTGTGGGGCACCTAAGGAGGAGGACTTTGCTGGCGCAGT
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TGCTCCATCTTCTGCCAGGCTCCATCAACATCACAGCACCTCAGTGTACGATGGACAGCAGCCTGTG



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AACTGCCTGAATGTCACCGTGTGCTTCCGGTTCATGGCAAGAATGTACCAGGAGAAATCGGTCTGAACT
 ACAATCTGACGGCTGATGTGGCACAAGGAGAAGGGCCAGCTGCCCAGAGTCTATTTTGTGTTGTTGG
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 GGTGGATCATCGCCATCAGTTTGTGGTGGGATCCTCATTTTTCTGCTGCTGGCTGTGCTCCTGTGGA
 AGATGGGCTTCTCCGCAGAAGTACAAGAGATCATTGAAGCTGAGAAAAACCGAAAGAGAATGAAGA
 TGGTTGGACTGGTCCAGAAAAACCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224505 representing NM_133721
 Red=Cloning site Green=Tags(s)

MGGPAAARTGAGGLRALLLALVAAGVPAGAYNLDAQRPVRFQGPSGSFFGYAVLEHFHDNTRWLVGAPK
 ADSKYSTSVKSPGAVFKRVHTNPDRRTELDMARGRTRGAPCGKTCRGDRDDEWMGVSLARQPRADGRV
 LACAHRWKNIYYEADHILPHGFCYLIPSNLQAKGKVLIPCYYEYKKYGEEHSCQAGIAGFFTEELVVM
 GAPGSFYWAGTLKVLNLTDNTYFKLNDEAIMNRRYTYLGYAVTAGHFSHPISITDVVGGAPQDEGIGKYYI
 FRADRRSGTLVKIFQASGKMGSYFGSSLCAVDLNMDGLSDLLVGAPMFSEIRDEQVTVYLNQHGHALE
 EQLTLTGDAAYNAHFGEIANLGDIDDDGFPDVAVGAPKEEDFAGAVYIYHGDANGIVPKYSMKLSGRRL
 NPTRLRMFGQISGGIDMDGNGYPDVTIGAFLLSDSVLLRARPVITVDVSIFLPGSINITAPQCHDGGQPV
 NCLNVTVCFRFHGKNVPEIGLNYNLTAQVQKEKQQLPRVYFVLFGETAGQVSERLQLSHMDEVCHHYV
 AHVKRRVQDVISPIVFEAAYSLDEHVMGEEDRELPLDTPVLRWKKGQRISQKNQTVFERNCQSEDCAADL
 QLRGKLLLSSVDEKTPHLALGAVKNISLNISSNLGDDAYDANVSFNVSRELFINMWQKEEMGISCELL
 ESDFLKCSVGFPMRSKSKYEFVIFDTSLSGEEELSFIVTAQSGNLERSEALHDNTLTLTVPLVHEV
 DTSITGIVSPTSFVYGESVDASNFQLDDQECHFPVNIITLQVYVMGPSTLPGSSVSI SFP SRLSPGGAE
 MFQVQDMVVSQEKGNCSLQRNPTPCIIPQEENIFHTIFAFFSKSGRKVLDCPKGSFCLTLHCNLSALP
 KEESRTIDL YMLLNTEILKDDSSSVIQFMARAKVKVEPALRVVEIANGNPEETLVFEALHNLEPRGYV
 GWIIAISLLVGILIFLLLAVLLWKMGGFRRRYKEIEAEKNRKENEDGWDVWVQNKQ

TRTRPLE – GFP Tag – V

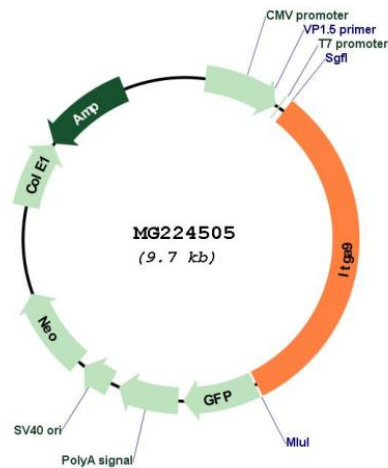
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_133721

ORF Size:

3108 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_133721.2 , NP_598482.2
RefSeq Size:	7001 bp
RefSeq ORF:	3111 bp
Locus ID:	104099
UniProt ID:	B8JK39
Cytogenetics:	9 70.32 cM
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]