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Product datasheet for MG224518

Itga9 (NM_001113514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga9 (NM_001113514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itga9
Synonyms:	(alpha)9; 2610002H11Rik; 6720458D17Rik; AI461869; D9Ertd428e; D130073C02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG224518 representing NM_001113514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGCCCGGCTGCGGCGCGGACCGGCGCCGGAGGGCTCCGCGCGCTGCTGCTGGCGCTGGTGGCCG
CGGGGGTCCCGGCCGGCGCCTACAACCTGGACGCGCAGCGCCCGGTACGCTTCCAGGGCCCCTCAGGCTC
CTTCTTCGGCTACGCGGTGCTGGAGCACTTCCACGACAACACGCGCTGGGTCCTCGTGGGTGCACCGAAG
GCAGATTCTAAATATAGCACTTCAGTAAAGTCTCCTGGAGCTGTGTTTAAGTGTCGTGTCCATACCAACC
CTGACCGGAGATGCACCGAGCTGGACATGGCTCGAGGGAGGACTCGTGGTGCGCCCTGTGGGAAGACCTG
CAGGGGAGACCGGGATGACGAGTGGATGGGGGTGAGCCTGGCCCGGCAGCCCAGAGCAGATGGCCGTGTT
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GTATGGGGAAGAACATGGCTCCTGCCAGGCCGGAATAGCAGGCTTCTTCACAGAGGAACTGGTGGTCATG
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CTCTCATCCATCCATCACTGATGTGGTAGGGGGTGCCCCACAGGATGAAGGCATTGGAAAGGTTTATATA
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CATGTTTTCTGAGATCAGAGATGAGGGGCAGGTCACCGTCTACCTCAACCAAGGACATGGAGCCCTCGAG
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AACTGCCTGAATGTCACCGTGTGCTTCCGGTTCCATGGCAAGAATGTACCAGGAGAAATCGGTCTGAACT
ACAATCTGACGGCTGATGTGGCACAGAAGGAGAAGGGCCAGCTGCCCAGAGTCTATTTTGTGTTGTTTGG
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CCTGCATCATCCCTCAAGAACAAGAGAACATCTTCCACACCATATTTGCTTTCTTCTCCAAGTCTGGAAG
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AGATGGGCTTCTTCCGCAGAAGGTACAAAGAGATCATTGAAGCTGAGAAAAACCGGAAAGAGAATGAAGA
TGGTTGGGACTGGGTCCAGAAAAACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224518 representing NM_001113514
Red=Cloning site Green=Tags(s)

MGGPAAARTGAGGLRALLLALVAAGVPAGAYNLDAQRPVRFQGPSGSFFGYAVLEHFHDNTRWVLVGAPK
ADSKYSTSVKSPGAVFKCRVHTNPDRRCTELDMARGRTRGAPCGKTCRGDRDDEWMGVSLARQPRADGRV
LACAHRWKNIYYEADHILPHGFCYLIPSNLQAKGKVLIPCYEEYKKKYGEEHGSCQAGIAGFFTEELVVM
GAPGSFYWAGTLKVLNLTDNTYFKLNDEAIMNRRYTYLGYAVTAGHFSHPSITDVVGGAPQDEGIGKVYI
FRADRRSGTLVKIFQASGKKMGSYFGSSLCAVDLNMDGLSDLLVGAPMFSEIRDEGQVTVYLNQGHGALE
EQLTLTGDAAYNAHFGESIANLGDIDDDGFPDVAVGAPKEEDFAGAVYIYHGDANGIVPKYSMKLSGRRL
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QLRGKLLLSSVDEKTPHLALGAVKNISLNISISNLGDDAYDANVSFNVSRELFFINMWQKEEMGISCELL
ESDFLKCSVGFPFMRSKSKYEFSVIFDTSHLSGEEEILSFIVTAQSGNLERSEALHDNTLTLTVPLVHEV
DTSITGIVSPTSFVYGESVDASNFIQLDDQECHFQPVNITLQVYNMGPSTLPGSSVSISFPSRLSPGGAE
MFQVQDMVVSQEKGNCSLQRNPTPCIIPQEQENIFHTIFAFFSKSGRKVLDCEKPGSFCLTLHCNLSALP
KEESRTIDLYMLLNTEILKKDSSSVIQFMARAKVKVEPALRVVEIANGNPEETLVVFEALHNLEPRGYVV
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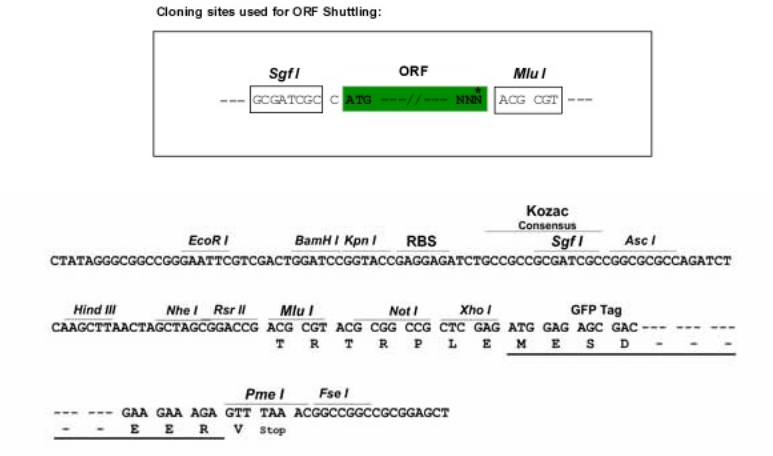
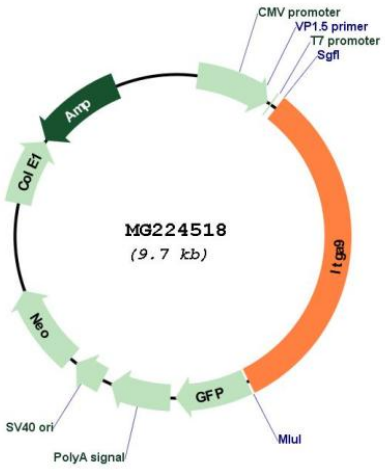
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001113514

ORF Size: 1350 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_001113514.1, NP_001106986.1
RefSeq Size:	5180 bp
RefSeq ORF:	1353 bp
Locus ID:	104099
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]