

Product datasheet for MR224446

Itga7 (NM_008398) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga7 (NM_008398) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Itga7
Synonyms: al; alpha7; [a]; [a]7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224446 representing NM_008398
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCAGGATCCGAGGTGCGATTTTCTCCGGCCCCCGGAATCTACTATCTTATTACTTCCTTGCTCG
 CTGGACTGTTCTTACCACCGCTATCGCCTTCAATCTGGATGTGATGGTGCCATACGCAAGGAGGGAGA
 ACCCGGCAGCCTATTCGGCTTTTCGGTGGCCCTGCACCGACAATTACAGCCCCGACCCAGAGCTGGCTG
 CTGGTGGGCGCTCCCGAGCCCTGGCTCTTCTGGACAGCAGGCAAACCGCACCGGAGGCCTCTTGGCTT
 GTCCCTGAGCCTAGAGGAGACAGATTGCTACAGAGTGGACATTGACAGGGGAGCTAACGTGCAGAAGGA
 GAGCAAGGAGAACCAATGGCTGGGAGTCAGTGTCCGGAGCCAGGGGCCAGGGGGCAAGATTGTTACGTGT
 GCACACCGATATGAGTCTCGACAGAGAGTGGACCAGGCTTTGGAGACTCGGGATGTGATTGGCCGCTGCT
 TTGTGCTAAGCCAGGACCTGGCCATCCGTGATGAGCTGGATGGTGGGGAGTGGAAGTTCTGTGAGGGGCG
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 TACCTCGTCTTTGGGCTCCAGGAACCTATAACTGGAAGGGTTGCTTTTTGTGACCAACATTGATAGCT
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GAACAACCCAACCTGTGCCGATGGACGCTTGGTCTGTGTGGACATAAAGATCTGTTTCAGCTATGTCGCTG
TGCCCAGCAGCTACAGCCCTAGTGTGGCCTTAGATTATATGTTAGATGGGGACACAGACCCGAGGCTCCG
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AGGAGGCGGCGAGAGCTGGGGCAGCCGGAGCCGAGGAGCCTCCAGAGAAGGTGGAGCCTAGCACATCCT
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TGCCCCAGTACCACGAGTGAAGATCCCTCGGGAAGACCGACAGCAGTTCAAGGAGGAGAAGACAGGCAC
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TGGCATCCTGAGCTGGTCTGATGGACATCCGGTGCCAGCCACTGCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224446 representing NM_008398
 Red=Cloning site Green=Tags(s)

MARIPRCDFLRPPGIYYLITSLLAGLFLPPAIAFNLDVMGAIKKEGEPGSLFGFSVALHRQLQPRPQSWL
 LVGAPQALALPGQQANRTGGLFACPLSLEETDCYRVIDIRGANVQKESKENQWLGVSVRSQGPGGKIVTC
 AHRYESRQRVDQALETRDVIIGRCFVLSQDLAIRDELGGGEWKFCEGRPQGHEQFGFCQQGTAATFSPDSH
 YLVFGAPGTYNWKGLLFVTNIDSSDPDQLVYKTLDPADRLTGPAGDLTLNSYLGFSDISGKGLMRSEELS
 FVAGAPRANHKGAVVILRKDSASRLIPEVVLSEGERLTSGFGYSLAVTDLNNDGWADLIVGAPYFFERQEE
 LGGAVVYVMNQGGHWADISPLRICGSPDSMFGISLAVLGDNLQDGFDPDIAVGAPFDGDGKVFIIYHGSSLG
 VVVKPSQVLEGEAVGIKSFYSLSGGLDVGDNHYPDLLVGLADTAALFRARPVLHVSQEIFIDPRAIDL
 EQPNCADGRLVCVDIKICFSYVAVPSSYSVALDYMLDGDTRRLRGQVPRVTFLSRGLDDLHRHQSSGT
 VWLKHQHDRCVGDVTFQLQENVKDKLRAIVVTLSYGLRTPPLGRQAPGQELPTVAPILNAHQPSQRTTEI
 HFLKQCGGEDKICQSNLQLERYQFCRSISDTEFQALPMDLDGRTALFALSGQPIGLELTVTNLPSDPAR
 PQADGDDAHEAQLLVTLPASLRYSGVRALDSVEKPLCLSNDSASHVECELGNPMKRGAVTFYLILSTSG
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 KYEVTVSNQGGSLNLTGSAFLNIMWPHEIANGKWLLYPMRVELEGGQGPGRKICSPRPNILQLDVSRRD
 RRRRELGGPEPQEPPEKVEPSTSWVPVSSAEKRNVTLDCAQGTAKCVVFSCLPLYSFDRAAVLHVWRLWN
 STFLEEYMAVKSLEIVRANITVKSSIKNLLLRDASTVIPVMVYLDPMVAVVEGVPWWVILLAVLAGLLV
 LALLVLLLWKLGFKRAKHPEATVPQYHAVKIPREDRQQFKEEKTGTIQRSNWNGSQWEGSDAHPILAAD
 WHPELGPDGHVPATA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

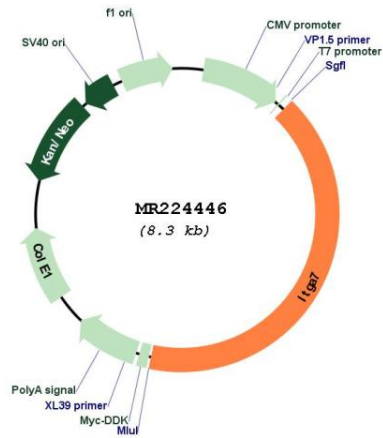


ACCN: NM_008398

ORF Size: 3408 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_008398.2 , NP_032424.2
RefSeq Size:	4035 bp
RefSeq ORF:	3411 bp
Locus ID:	16404
Cytogenetics:	10 77.2 cM
MW:	125.1 kDa
Gene Summary:	This gene encodes a member of the integrin family of cell surface proteins that mediate cellular interactions with the extracellular matrix and other cells. The encoded transmembrane protein is the alpha subunit that forms a noncovalent heterodimer with the beta subunit to form the functional integrin receptor that binds to laminin. Mice lacking the encoded protein exhibit symptoms of progressive muscular dystrophy, impaired axonal regeneration and cerebral vascular defects. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR224446