

## Product datasheet for RR207746

### Itga7 (NM\_030842) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Itga7 (NM_030842) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga7
Synonyms:	MGC105724
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207746 representing NM_030842 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGGATCCGAGGTGCGATTTCTCGGGCTCCCCGGAATTTGCTACCTTCTTAGTTTCTTGCTTG  
CCGGACTGCTCTTACCACGGGCTAGCGCCTTCAATCTGGATGTGATGGTGCCATACGCAAGGAGGGAGA  
ACCTGGCAGCTTATTCGGCTTTTCGGTGGCCCTACACCGACAATTACAGCCCCGACCCAGAGCTGGCTG  
CTGGTGGGTGCCCCAGGCCCTGGCTTCTCCCGACAGCAGGCAAATCGCACGGGAGGCCCTTTGCTT  
GTCCCCTGAGCCTAGAGGAGACAGACTGCTACAGAGTGGACATCGACAGGGGAGCTAATGTGCAGAAGGA  
AAGCAAGGAGAACCAGTGGCTGGGAGTCAGCGTCCGAGCCAGGGAGCCGGGGCAAGGTTGTACCTGT  
GCACACCGATATGAGTCTCGACAGAGAGTGGACCAGGTTTTGGAGACTCGGGATGTGATTGGTCGTTGCT  
TTGTGCTGAGCCAGGACCTGGCCATCCGTGATGAGTTGGATGGTGGGGAGTGGAAGTTCTGTGAAGGGCG  
CCCCAGGGCCACGAACAATTTGGGTTCTGCCAGCAGGGCACAGCTGCCACCTTCTCCCCGACAGCCAC  
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GACCTTGAATAGCTATTTAGGTTTCTCCATTGATTCTGGGAAGGGTCTCATGCGCTCAGAAGAGCTGAGT  
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GCCTGATTCCTGAGGTTGTGCTGTCTGGGAGCGCCTGACCTCTGGCTTTGGCTACTCCCTGGCTGTGAC  
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CTTGGAGGTGCCGTGATGTGTACATGAACCAGGGTGGCCATTGGGCAGATATCTCTCCTCTCCGACTCT  
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AGACATTGCTGTAGGAGCTCCCTTTGACGGAGATGGGAAAGTCTTTATCTACCATGGGAGCAGCCTGGG  
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CTGGTGGCCTGGATGTGGACGGAATCACTACCCGGACCTGCTTGTGGGCTCCCTGGCTGATACTGCTGC  
TCTGTTACAGGCCAGACCTGTTCTACATGTCTCCAAGAAATCTTCATTGATCCAAGAGCCATCGATCTG



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GAACAGCCAACTGTGCCGACGGACGCTTGGTCTGCGTGACGTAAGGTCTGTTTCAGTTATGTTGCTG  
TGCCACAGCAGCTACAGCCCTATTGTGGTCTAGATTATGTGTTAGATGGGGACACAGACCCGAGGCTCCG  
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CCTCCATTAAGAACTTGCTGCTCAGAGATGCATCCACAGTATCCAGTATGATGATACTTGGACCCGGT  
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CCCAGTACCACGCACTGAAGATCCTTCGGGAAGACCGGCAGCAGTTCAAGGAGGAGAAGACAGGCACCAT  
TCAGAGGAGTAAGTGGGGCAATCCAGTGGGAGGGCTCCGACGCACACCCTATCCTGGCTGCCGACTGG  
CACCTGAGTTGGGTCTGATGGACATCCTGTGTCAGTCACTGCC

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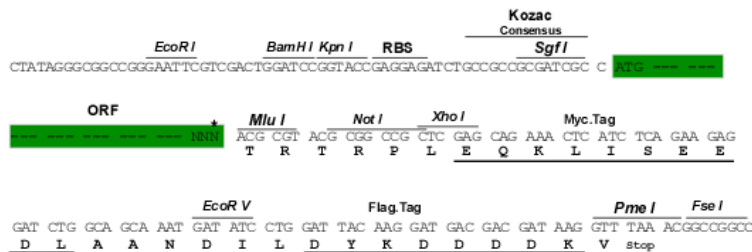
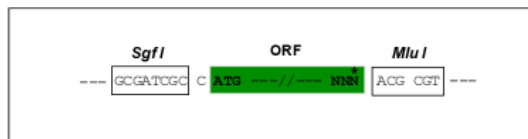
**Protein Sequence:** >RR207746 representing NM\_030842  
 Red=Cloning site Green=Tags(s)

MARIPRCDFLGLPGICYLLSFLLAGLLLPRASAFNLDVMGAIKKEGEPGSLFGFSVALHRQLQPRPQSWL  
 LVGAPQALALPGQANRTGGLFACPLSLEETDCYRVIDIRGANVQKESKENQWLGVSVRSQGAGGKVVTC  
 AHRYESRQRVDQVLETRDVIGRCFVLSQDLAIRDELDDGGWKFCGRPQGHEQFGFCQGTAAATFSPDSH  
 YLIFGAPGTYNWKGLLFVTNIDSSDPDQLVYKTLDPADRLTGPAGDLTLNSYLGFSIDSGKGLMRSELS  
 FVAGAPRANHKGAVVILRKDSASRLIPEVVLSEGERLTSFGYSLAVTDLNSDGDWADLIVGAPYFFERQEE  
 LGGAVVYVMNQGGHWADISPLRLCGSPDSMFGISLAVLGDNLQDGFDPDI AVGAPFDGDGKVFYIHGSSLG  
 VYTKPSQVLEGEAVGIKSFYSLSGGLDVDGNHYPDLLVGLADTAALFRARPVLHVSQEIFIDPRAIDL  
 EQPNCADGRLVCVHVKVCFSYVAVPSSYSPIVVLVDYLDGDTDRRLRGQAPRVTFPGRGPDDLKHQSSGT  
 VSLKHQHDRCVGDVTFQLQENVKDKLRAIVVTL SYGLQTPRLRRQAPDQGLPLVAPILNAHQSTQRTEI  
 HFLKQCGGDDKICQSNLQAQAQFCRSISDTEFQALPMDLDGTALFALSGQPFIGLELTVTNLPSDPARP  
 QADGDDAHEAQLLATLPASLRYSVVRTLDSVEKPLCLSNENASHVECELGNPMKRGTQVTFYLILSTSGI  
 TIETTELKVELLLATISEQDLHPVSVRAHVFIELPLSISGVATPQQQLFFSGKVKGESAMRSERDVGSKVK  
 YEVTVSNQGQSLNLTLSAFLNIMWPHEIANGKWLLYPMRVELEGGQGPKEKKGICSPRPNILHLDVDSRDR  
 RRRELGGQPEPQEPPEKVEPSTSWWPVSSAEKRNVTLDCAQGTAKCVVFSCLPYSFDRAAVLHVWGRLLWNS  
 TFL E E Y M S V K S L E V I V R A N I T V K S S I K N L L L R D A S T V I P V M V Y L D P V A V V A E G V P W W I L L A V L A G L L V L  
 A L L V L L L W K L G F F K R A K H P E A T V P Q Y H A V K I L R E D R Q Q F K E E K T G T I Q R S N W G N S Q W E G S D A H P I L A A D W  
 H P E L G P D G H P V S V T A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:

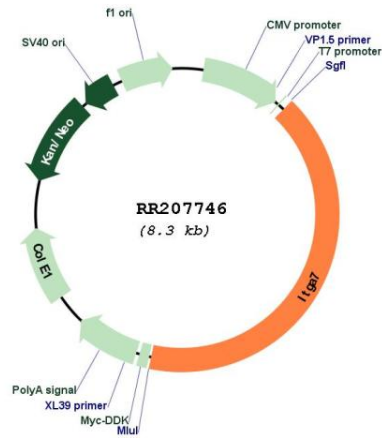


\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030842  
**ORF Size:** 3405 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_030842.1</a> , <a href="#">NP_110469.1</a>
<b>RefSeq Size:</b>	3922 bp
<b>RefSeq ORF:</b>	3408 bp
<b>Locus ID:</b>	81008
<b>UniProt ID:</b>	<a href="#">Q63258</a>
<b>Cytogenetics:</b>	7q11
<b>MW:</b>	124.2 kDa
<b>Gene Summary:</b>	alpha subunit of integrin alpha-7/beta-1; functions as a laminin receptor [RGD, Feb 2006]

Product images:



Circular map for RR207746