

Product datasheet for **RR217446**

Itga8 (NM_001173972) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga8 (NM_001173972) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga8
Synonyms:	RGD1564327
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR217446 representing NM_001173972 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGCGAGAACCACCGGGTCCCCGGAGAAGTGGGCACCTCCGTTGCTCTGTTGCGTCT
CGGCCGTGCTGGGATGCTGTGGTCCCCGTGTCTCTGGCGTTCAACTTGGACGTAGACAAGCTCACGGT
GTACAGTGGCCCCGAGGGCAGCTACTTCGGCTACTCGCTGGACTTCTACATACCTGATGCGCGCACAGCC
AGTGTCTTGGTGGGGCGCCAAAGCCAACACTAGCCAGCCGGATATCGTAGAAGGGGAGCTGTCTACT
ACTGTCCCTGGCCTGCAGAGAGGTCTGCACAGTGAAGCAGATACCCTTTGACACCACCAACAACAGGAA
AATCAGAGTTAATGGAACCAAAGAGCCTATAGAATTTAAATCAAACCAATGGTTTGGAGCCACAGTGAGA
GCTCACAAGGAAAAGTTGTGGCTTGTGCCCTTTATATCACTGGAGAAGCTGAAGCCTAATCCAGCAA
AGGACCCGGTTGGCACATGCTATGTAGCAATTCAGAACTTCAGTGCTTACGCTGAGCACTCACCTGTGC
GAACAGCAACGTTGATCCTGAAGCCAAGGTTACTGCCAAGCCGGCTTCAGTCTAGACTTCTATAAGAAT
GGAGACCTTATAGTGGGAGGACCTGGAAGCTTTTACTGGCAAGGTCAGGTGATCACGGTCAGTGTAGCAG
ACATCATTGCAAATTAATCAATCAAGACATTCTCGAAAAGTGGCAGCAGAAAAGCAGACAGATGTGGC
TCCAGCTTCTATGATGACAGTACCTTGGATATTCAGTTGCTGCTGGAGAATTCAGTGGGACTCTCTG
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AGGTCTTACGGGCACAGAGACTTTGGGAGATTCGGTAGTCTGTGGCCCACTTGGGGACCTGAACCA
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CAGCTTCTGCTGCACCAATGATTATCAACCTGAAAATAAACTTGCAGATTCAGAATTCGCCGACTC



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CTGTGGCCTGCTTTTCTTTAAGAGTCTGTGCATCTATAGCAGGCCAGAGCATTTCAAATACAGTAGCCCT
 GATGGCCGAGGTGCAGTTAGATTTCTGAAGCAAAAAGGAGCCATCAAACGGACCCTCTTCTCCACAAC
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 AGGGAACAACGACCAGTGACAAGACCCCGGAGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217446 representing NM_001173972

Red=Cloning site Green=Tags(s)

MSARTHRRPPEWAPPFACLVAVLWSPVSLAFNLDVDKLTVYSGPEGSYFGYSLDFYIPDART
 SVLVGAPKANTSQPDIVEGGAVYYCPWPAERSAQCKQIPFDTTNRRKIRVNGTKEPIEFKSNQWFGATVR
 AHKGVVACAPLYHWRLLKPNPAKDPVGTGCVVAIQNFSAYAEHSPCRNSNVDPGQGYCQAGFSLDFYKN
 GDILVGGPGSFYQGVITVSVADIIANYSFKDILRKLAAEKQTDVAPASYDDSYLGYVAAGEFTGDSL
 QELVAGIPRGAQNFYVSIINSTDMTFIQNFTGEQMASYFGYTVVSDVNDGMDDILVGAPLFMEREF
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 TEQAHLVDCGEDNLCVPLRLSARPDQEQEIIIGDENHMLIINARNEGEGAYEAEFVMIPEEADYVGI
 ERNNGKLRLLSCEYKMENTRMVVDLGNMVTGTNFSGLRFAVPRLEKTNMSINFDLQIRSSNKDNDP
 SNFVSVQINVTAVAQVEIRGVSHPPQIVLPIHNWEPAEHPKKEEVGGLVEHIYELHNIGPSTISDSILE
 VGWPFSAAREFLLYVFLQTLGLPLQCQTNPEINPQDIKPAASPEDPELSAFLRNATIPHLVRKRDVPV
 QPHRQSPAKILNCTNIDCLQISCAVGRLLGGESAVLKVRSRLWAHTFLQRKNDPYALASLVSEVKKIPY
 KEQPAKLPAGSTAIKTSVIWATPNVFSFIPLWVILAILLGLLVLAAILTLALWKCGFFDRARPPQDEMTD
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

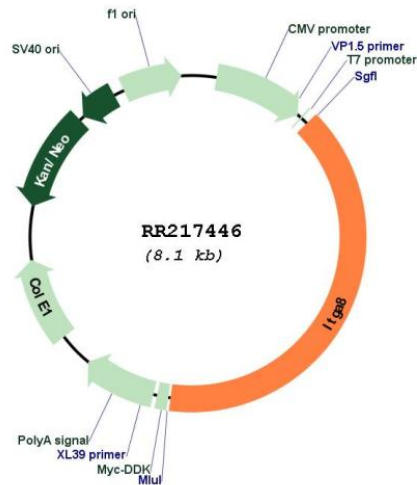
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001173972

ORF Size: 3186 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:	<u>NM_001173972.1, NP_001167443.1</u>
RefSeq Size:	5896 bp
RefSeq ORF:	3189 bp
Locus ID:	364786
Cytogenetics:	17q12.3
MW:	117.6 kDa
Gene Summary:	acts as a receptor for fibronectin; may be a receptor of matrix ligands and function in glomerular capillary tuft development and physiology [RGD, Feb 2006]