

Product datasheet for **RR203904**

Itgam (NM_012711) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgam (NM_012711) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgam
Synonyms:	Cd11b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203904 representing NM_012711 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGC**C

ATGACTCTTAAAGTTCTTCTGGCGACAGTCCTAACCTTGTCATGGCTTCAATTTGGACTGAAAATC
CCATGACCTTCCAAGAGAATGCAAGTGGCTTCGGGCAGAGTGTGATCCAGCTTGGTGAACCCGAGTGGT
TGTTGCAGCCCCCAGGAGGTAAGGCGGTTAACCAGACAGGTGCCCTTACCAGTGTGACTACAGCACA
AACCGGTGCGACCCATTCCCCTGCAAGTACCTCCAGAGGCTGTGAATATGTCCTTGGGCTGTCCCTGG
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GCCATCCATGGGGTCGCTTTGGGGCAGCATTGACAGTGTGGGAGATGTGAATGGAGACAACTGACAGA
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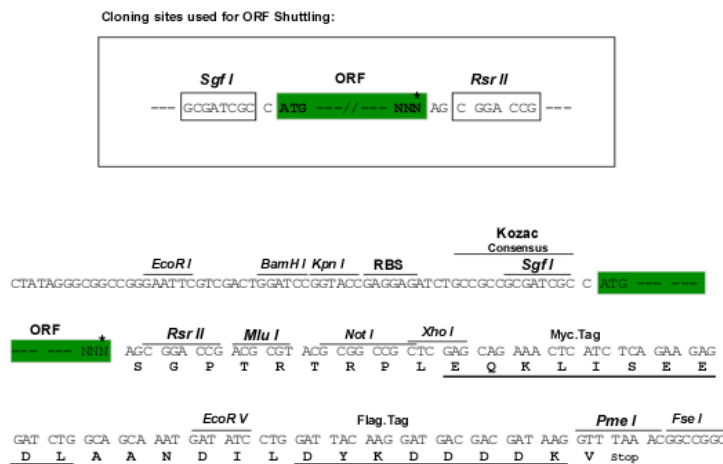
Protein Sequence: >RR203904 representing NM_012711
 Red=Cloning site Green=Tags(s)

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 SQEGFSAAITSNGLLGSVGSFDWAGGAFLYPSKDKASFINTTRIDSDMNDAYLGYASAVISRNRVQSLV
 LGAPRYQHIGLVVMFKQNFGAWEPTDIKGSQIGSYFGASLCSVDMDADGNTNLILIGAPHHYEKTRGGQ
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 ASI STPHSQRIAGARFSPGLQYFGQSLSGGKDLTMDGLMDLAVGAQGRLLLIRAQPVLRLLEATMEFSPKN
 LARSVFAEQEEVKNKDAGEVRVCLQVRKNTKDRLREGDIQSTVTYDLALDPGRSVVRAFFDETNGILR
 RIRVFGLTQKCTLKILPDCVDNSVSPILRLNYTLVGEPLRSSRDLRPLAMEAQRIFTAMFPFEKNC
 GNDTICQDDL SITVSSTRVNTLVVGDSTRDFDVSVTLRNDGEDSYGKVTCTYPSGLSYRKVSASQNFQSK
 KPWRVIAEPSSSEGQGLKSTIWDINHPIFPANSEVTFNVTFDVSDASLGNKLLLVVVTSENNVSRD
 KTESQLELPVKYAIYMVVTSGESSIKYLNFTASEMTSKVIQHQQFNQLGQRSFPVSVVFWIPVQINKVT
 IWDPPQVTF SQNLSVCRTEQKSPSHSKFQDELERTPVLNCSVAVCKRIQCDIPSFNSKEIFNVTLQGNL
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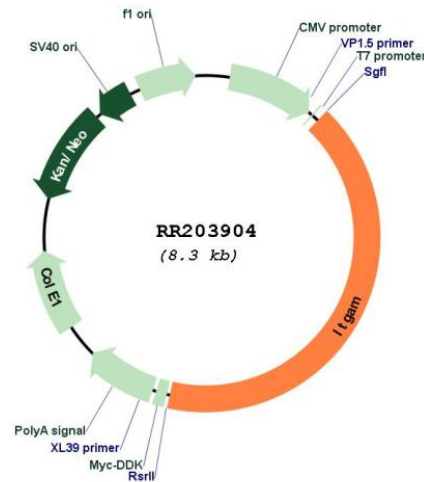
SGPTRRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_012711

ORF Size: 3453 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_012711.1](#), [NP_036843.1](#)

RefSeq Size: 3456 bp

RefSeq ORF: 3456 bp

Locus ID: 25021

Cytogenetics: 1q37

MW: 126.9 kDa

Gene Summary: mouse homolog is an integrin alpha subunit that interacts with integrin beta 2 subunit to form Mac-1; involved in immune response [RGD, Feb 2006]