

Product datasheet for **MR224242**

Itgb7 (NM_013566) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb7 (NM_013566) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb7
Synonyms:	Ly69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224242 representing NM_013566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGATTCATCAACTGTTCTCATTTTTCTGCTGGTCTGGGCGGAGGTCAGAGTGAGTTAGATACCA
 AGATTACATCCTCTGGGAGGCCGAGAATGGGAGGATCCTGACCTGTCTCTGCAGGATCCTGCCAGCC
 AGTTCTTCTCTGCCAGAAGTGTATTCTCTCACATCCCAGCTGTGCATGGTGCAAACAACCTGAACCTCACT
 GCCTCGGGAGAGGCAGAGGCGAGGCGCTGCGCGCGGCAGAGGAGCTACTGGCTCGCGGGTGCCCGCGC
 AGGAGCTAGAGGAGCCGAGAGGCCGCCAGGAGGTGCTGCAGGACAAGCCGCTCAGCCAGGGAGATCGCGG
 CGAGGGGGCCACCCAGCTGGCCCCGAGCGGATCCGCGTCACGCTGCGACCAGGGGAGCCCCAGAAATTC
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 GCAACACTGCCTGTGTATCAGGAGCTGAGACAGTTGATTCCCAAGTCTGCTGTGCGGGAGCTGAGTGAGG
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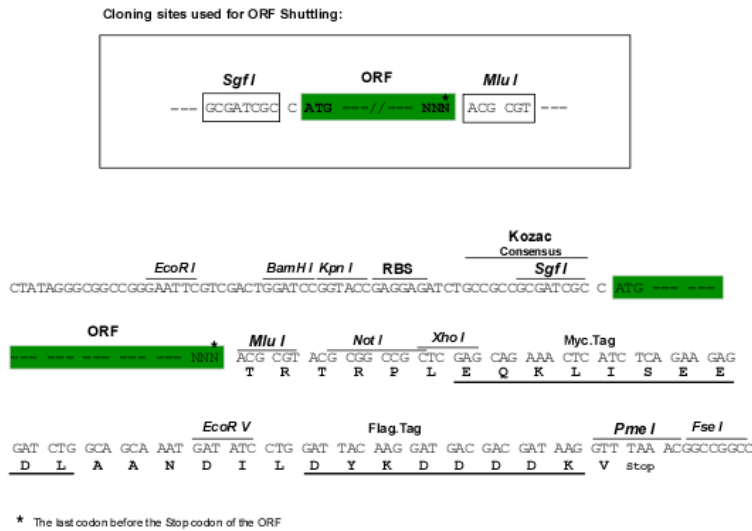
Protein Sequence: >MR224242 representing NM_013566
Red=Cloning site Green=Tags(s)

MVDSSTVLIFLLVLGGGQSELDTKITSSGEAAEWEDPDLSLQGSCQVPVSCQKCILSHPSCAWCKQLNFT
ASGEAEARRCARREELLARGCPAQELEEPGRQEVLDKPLSQGDRGEGATQLAPQRIRVTLRPGEPOKF
RVRFLRAAGYPVDLYLMDLSYMKDDLERVRLGHALLVRLQEVTHSVRIGFGSFVDKTVLPFVSTVPS
KLHHPGPSRLERCQPPFSFHHVLSLTGDAQAFEREVGRQNVSGNLDSPGGFDAILQAALCQEIQGWRNV
SRLLVFTSDDTFHTAGDGKLGIFMPSDGRCHLDSNGVYTNSAEFDYPSVGQVAQALTAANIQPIFAVVG
ATLPVYQELRQLIPKSAVGELSEDSSNVVQLIMDAYDSLSTVTLSEHSPPLPPGVSI SFESHCKGPEKTEG
EAGDRGQCNDVRVNQTVDFWVTLQATHCLPEAHVLRWALGFSEELTVELHTVDCDCGDAQPHAPYCS
DGGDLQCIGICSCAPGRLGQLCECSEADLSSPDLESGCRAPNGTGPLCSGKGRQCGRCSGSSGRLCE
CDDASCEHHEGILCGGFGHCQCGVCHCHANHTGRACECSKSVDSVSPGGGLCSGHGYCKNRCQCLDGY
YGALCDQCLGCKSPCEQYRDCAECGAFGTGPLAANCSVVCADVNVTLTLAPNLDDGWCKERTIDNQLFFF
LVEHAASGIVLRVPRQEKGVDPHTRAIILGCTGGIVAVGLGLVLAAYRLSVEIYDRREYRRFEKEQQQLNWK
QDNNPLYKSAITTTVNPRFQGTNGRSPSLSLTREAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


- ACCN:** NM_013566
- ORF Size:** 2418 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_013566.2](#), [NP_038594.2](#)

RefSeq Size: 2696 bp

RefSeq ORF: 2421 bp

Locus ID: 16421

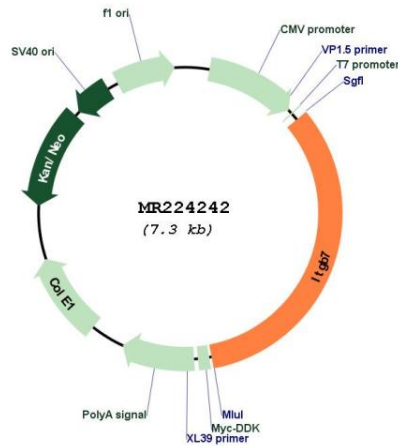
UniProt ID: [P26011](#)

Cytogenetics: 15 57.39 cM

MW: 87.9 kDa

Gene Summary: Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is involved in adhesive interactions of leukocytes. It is a receptor for fibronectin and recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Integrin alpha-4/beta-7 is also a receptor for MADCAM1 and VCAM1. It recognizes the sequence L-D-T in MADCAM1. Integrin alpha-E/beta-7 is a receptor for E-cadherin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224242