

Product datasheet for **RC239346**

CD18 (ITGB2) (NM_001303238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD18 (ITGB2) (NM_001303238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITGB2
Synonyms:	CD18; LAD; LCAMB; LFA-1; MAC-1; MF17; MFI7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239346 representing NM_001303238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGGCTGTGCGGCTGACGACATCATGGACCCACAAGCCTCGTGAAACCCAGGAAGACCACAATG
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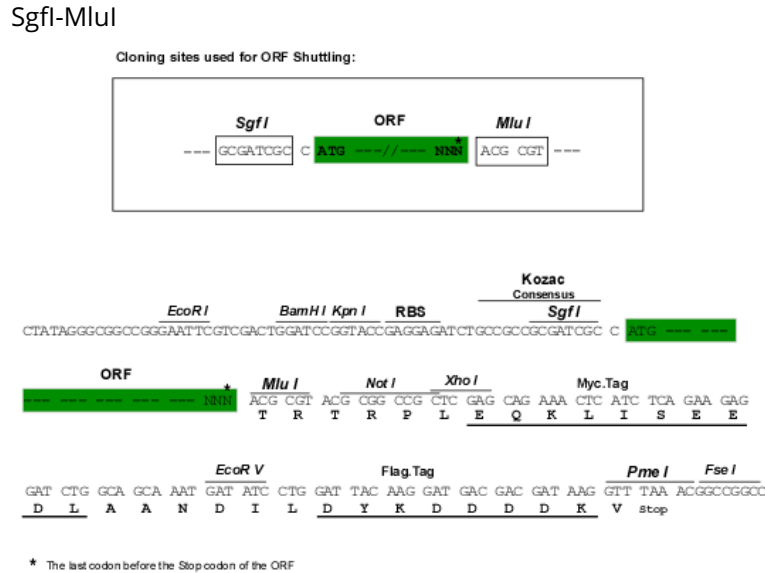
Protein Sequence: >RC239346 representing NM_001303238
 Red=Cloning site Green=Tags(s)

MRGCAADDIMDPTSLAETQEDHNGGQKQLSPQKVTLYLPRGQAAAFNVTFRRAKGYPIDLYYLMDLSYSM
 LDDL RNVK KLG D L L R A L N E I T E S G R I G F G S F V D K T V L P F V N T H P D K L R N P C P N K E K E C Q P P F A F R H V L K
 L T N N S N Q F Q T E V G K Q L I S G N L D A P E G G L D A M M Q V A A C P E E I G W R N V T R L L V F A T D D G F H F A G D G K L G A I L
 T P N D G R C H L E D N L Y K R S N E F D Y P S V G Q L A H K L A E N N I Q P I F A V T S R M V K T Y E K L T E I I P K S A V G E L S E D S
 S N V V H L I K N A Y N K L S S R V F L D H N A L P D T L K V T Y D S F C S N G V T H R N Q P R G D C D G V Q I N V P I T F Q V K V T A T E
 C I Q E Q S F V I R A L G F T D I V T V Q V L P Q C E C R C R D Q S R D R S L C H G K G F L E C G I C R C D T G Y I G K N C E C Q T Q G R S
 S Q E L E G S C R K D N N S I I C S G L G D C V C G Q C L C H T S D V P G K L I Y G Q Y C E C D T I N C E R Y N G Q V C G G P G R G L C F C
 G K C R C H P G F E G S A C Q C E R T T E G C L N P R R V E C S G R G R C R C N V C E C H S G Y Q L P L C Q E C P G C P S P C G K Y I S C A
 E C L K F E K P F G K N C S A A C P G L Q L S N N P V K G R T C K E R D S E G C W V A Y T L E Q Q D G M D R Y L I Y V D E S R E C V A G P
 N I A A I V G G T V A G I V L I G I L L L V I W K A L I H L S D L R E Y R R F E K E K L K S Q W N N D N P L F K S A T T V M N P K F A E S

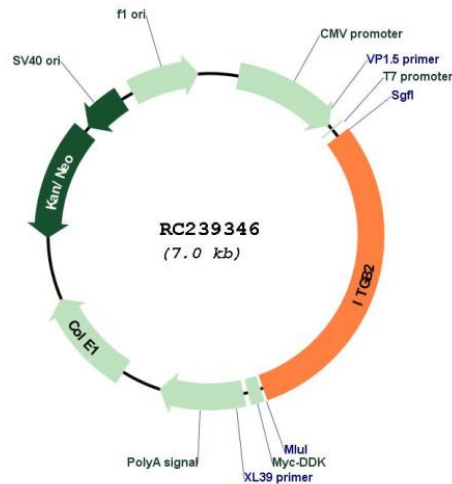
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303238

ORF Size: 2100 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_001303238.2](#)

RefSeq Size: 2928 bp

RefSeq ORF:	2103 bp
Locus ID:	3689
UniProt ID:	P05107
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Viral myocarditis
MW:	77.8 kDa
Gene Summary:	This gene encodes an integrin beta chain, which combines with multiple different alpha chains to form different integrin heterodimers. Integrins are integral cell-surface proteins that participate in cell adhesion as well as cell-surface mediated signalling. The encoded protein plays an important role in immune response and defects in this gene cause leukocyte adhesion deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]