

Product datasheet for **RC217265**

Integrin alpha E (ITGAE) (NM_002208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin alpha E (ITGAE) (NM_002208) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Integrin alpha E
Synonyms:	CD103; HUMINAE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217265 representing NM_002208 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGTGGCTCTTCCACACTCTGCTCTGCATAGCCAGCCTGGCCCTGCTGGCCGCTTTCAATGTGGATGTGG
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Protein Sequence: >RC217265 representing NM_002208
 Red=Cloning site Green=Tags(s)

MWL FHTLLCIA SLALLAAFNVDVARPWLTPKGGAPFVLSLLHQDPSTNQTWLLVTSRPTKRTPGPLHRC
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 VGAFDWSGGALLYDTRSRRGRFLNQTA AAAADAEEAAQYSYLGYAVAVLHKTC SLSYVAGAPQYKHHGAVF
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 HPVLKRSSAHVS VVWQLEENAFPNRTADITVTVTNSNERRSLANETHTLQFRHGFVAVLSKPSIMYVNTG
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 EWHSVSCV IASDKENVTVA AEISWDHSEELLKDVT ELQILGEISFNKSLYEGLNAENHRTKITVVF LKDE
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Chromatograms: https://cdn.origene.com/chromatograms/mg3802_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

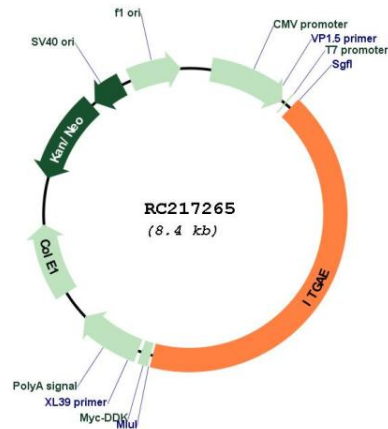


ACCN: NM_002208

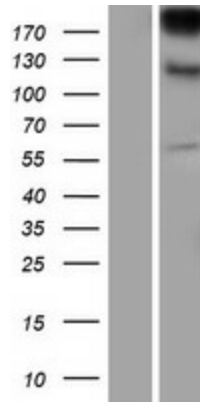
ORF Size: 3537 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002208.5
RefSeq Size:	3878 bp
RefSeq ORF:	3540 bp
Locus ID:	3682
UniProt ID:	P38570
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Regulation of actin cytoskeleton
MW:	130.12 kDa
Gene Summary:	Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes an I-domain-containing alpha integrin that undergoes post-translational cleavage in the extracellular domain, yielding disulfide-linked heavy and light chains. In combination with the beta 7 integrin, this protein forms the E-cadherin binding integrin known as the human mucosal lymphocyte-1 antigen. This protein is preferentially expressed in human intestinal intraepithelial lymphocytes (IEL), and in addition to a role in adhesion, it may serve as an accessory molecule for IEL activation. [provided by RefSeq, Jul 2008]

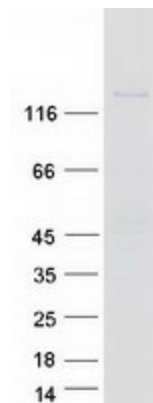
Product images:



Circular map for RC217265



Western blot validation of overexpression lysate (Cat# [LY419469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217265 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ITGAE protein (Cat# [TP317265]). The protein was produced from HEK293T cells transfected with ITGAE cDNA clone (Cat# RC217265) using MegaTran 2.0 (Cat# [TT210002]).