

Product datasheet for **RC200636**

ICAM4 (NM_001039132) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICAM4 (NM_001039132) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ICAM4
Synonyms:	CD242; LW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200636 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGTCTCTGTTCCCTCTGTCGCTGCTGTTTTTTTTGGCGGCCGCTACCCGGGAGTTGGGAGCGCGC
TGGGACGCCGACTAAGCGGGCGCAAAGCCCCAAGGGTAGCCCTCTCGCGCCCTCCGGGACCTCAGTGCC
CTTCTGGGTGCGCATGAGCCCGGAGTTCGTGGCTGTGCAGCCGGGAAGTCAGTGCAGCTCAATTGCAGC
AACAGCTGTCCCCAGCCGAGAATTCAGCCTCCGCACCCCGCTCGGCAAGGCAAGACGCTCAGAGGGC
CGGTTGGGTGTCTTACCAGCTGCTCGAGTGAGGGCCTGGAGCTCCCTCGCGCACTGCCTCGTGACCTG
CGCAGGAAAAACAGCTGGGCCACCTCCAGGATCACCGCCTACAGTGTTCCCGGTGGGCTACTTGGTGGT
GACCCTGAGGCATGGAAGCCGGTCATCTATTCCGAAAGCCTGGAGCGCTTACCAGGCTGGATCTGGCC
AACGTGACCTTGACCTACGAGTTTGTGCTGGACCCCGGACTTCTGGCAGCCCGTGATCTGCCACGCGC
GCCTCAATCTCGACGGCCTGGTGGTCCGCAACAGCTCGGCACCCATTACACTGATGCTCGCTTGGAGCCC
CGCGCCACAGCTTTGGCCTCCGTTCCATCGTGCCTTGTAGGGATCCTCCTCACTGTGGCGCTGCG
TACCTATGCAAGTGCCTAGCTATGAAGTCCCAGGCGTAAAGGGGGATGTTCTATGCCGGCTGAGCGAGAA
AAAGAGGAATATGAAACAATCTGGGAAATGGCCATACATGGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200636 protein sequence
Red=Cloning site Green=Tags(s)

MGSLFPLSLLFFLAAAYPGVGSALGRRTKRAQSPKGSPLAPSGTSVPFWVRMSPEFVAVQPGKSVQLNCS
 NSCPQPQNSSLRTPLRQGKTLRPGWVSYQLLDVRAWSSLAHCLVTCAGKTRWATSRITAYSVPGLLGG
 DPEAWKPGHLFRKPGALHRPGSGQRDLDLRVCCWTPRLLAARDLPRAPQSRPPGGPQQLGTHYTDARLEP
 RAHSFGLRFHRCPCRDPHCGRCVPMQVPSYEVPGVKGDVLCRLSEKRNMKQSGEMAIHGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6394_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039132

ORF Size: 816 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_001039132.3](#)

RefSeq Size: 1277 bp

RefSeq ORF: 819 bp

Locus ID: 3386

UniProt ID: [Q14773](#)

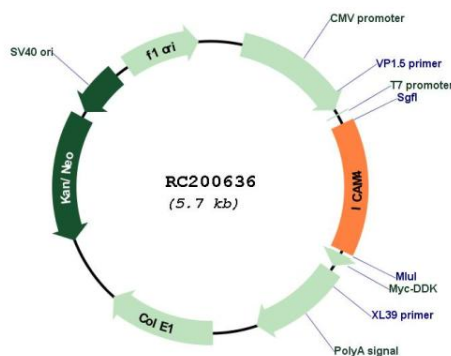
Cytogenetics: 19p13.2

Protein Families: Secreted Protein, Transmembrane

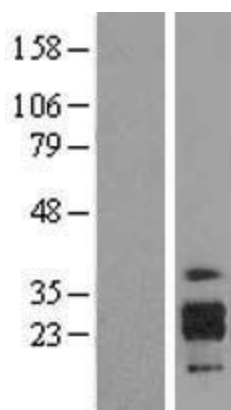
MW: 29.6 kDa

Gene Summary: This gene encodes the Landsteiner-Wiener (LW) blood group antigen(s) that belongs to the immunoglobulin (Ig) superfamily, and that shares similarity with the intercellular adhesion molecule (ICAM) protein family. This ICAM protein contains 2 Ig-like C2-type domains and binds to the leukocyte adhesion LFA-1 protein. The molecular basis of the LW(A)/LW(B) blood group antigens is a single aa variation at position 100; Gln-100=LW(A) and Arg-100=LW(B). Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

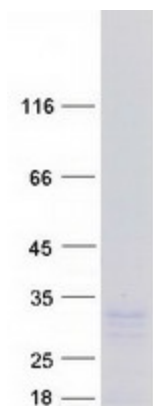
Product images:



Circular map for RC200636



Western blot validation of overexpression lysate (Cat# [LY422020]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200636 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ICAM4 protein (Cat# [TP300636]). The protein was produced from HEK293T cells transfected with ICAM4 cDNA clone (Cat# RC200636) using MegaTran 2.0 (Cat# [TT210002]).