

## Product datasheet for **RG200636**

### ICAM4 (NM\_001039132) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ICAM4 (NM\_001039132) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ICAM4  
**Synonyms:** CD242; LW  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200636 representing NM\_001039132  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTCTCTGTTCCCTCTGTCGCTGCTGTTTTTTTTGGCGGCCGCTACCCGGGAGTTGGGAGCGCGC  
TGGGACGCCGACTAAGCGGGCGCAAAGCCCCAAGGGTAGCCCTCTCGCGCCCTCCGGGACCTCAGTGCC  
CTTCTGGGTGCGCATGAGCCCGGAGTTCGTGGCTGTGCAGCCGGGAAGTCAGTGCAGCTCAATTGCAGC  
AACAGCTGTCCCCAGCCGAGAATTCAGCCTCCGCACCCCGCTCGGCAAGGCAAGACGCTCAGAGGGC  
CGGGTTGGGTGTCTTACCAGCTGCTCGAGTGAGGGCCTGGAGCTCCCTCGCGCACTGCCTCGTGACCTG  
CGCAGGAAAAACAGCTGGGCCACCTCCAGGATCACCGCCTACAGTGTTCCCGGTGGGCTACTTGGTGGT  
GACCCTGAGGCATGGAAGCCGGTCATCTATTCCGAAAGCCTGGAGCGCTTACCAGGCTGGATCTGGCC  
AACGTGACCTTGACCTACGAGTTTGTGCTGGACCCCGGACTTCTGGCAGCCCGTGATCTGCCACGCGC  
GCCTCAATCTCGACGGCCTGGTGGTCCGCAACAGCTCGGCACCCATTACACTGATGCTCGCTGGAGCCC  
CGCGCCACAGCTTTGGCCTCCGGTCCATCGCTGCCCTGTAGGGATCCTCCTCACTGTGGCGCTGCG  
TACCTATGCAAGTGCCTAGCTATGAAGTCCAGGCGTAAAGGGGGATGTTCTATGCCGGCTGAGCGAGAA  
AAAGAGGAATATGAAACAATCTGGGGAATGGCCATACATGGTGCC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG200636 representing NM\_001039132  
 Red=Cloning site Green=Tags(s)

MGSLFPLSLLFFLAAAYPGVGSALGRRTKRAQSPKGSPLAPSGTSVPFWVRMSPEFVAVQPGKSVQLNCS  
 NSCPQPQNSSLRTPLRQGKTLRPGWVSYQLLDVRAWSSLAHCLVTCAGKTRWATSRITAYSVPGLLGG  
 DPEAWKPGHLFRKPGALHRPGSGQRDLDLRVCCWTPRLLAARDLPRAPQSRPPGGPQQLGTHYTDARLEP  
 RAHSFGLRFHRCPCRDPPHCGRCPVMQVPSYEVPGVKGDVLCRLSEKRNMKQSGEMAIHGG

TRTRPLE - GFP Tag - V

**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:** 1196 bp

**RefSeq ORF:** 819 bp

**Locus ID:** 3386

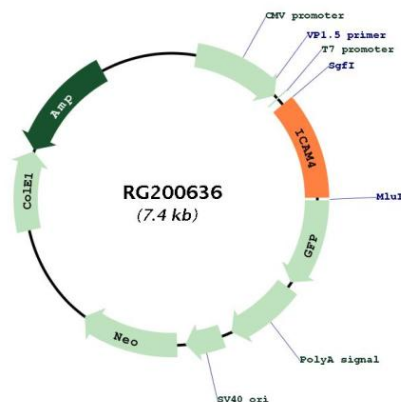
**UniProt ID:** [Q14773](#)

**Cytogenetics:** 19p13.2

**Protein Families:** Secreted Protein, Transmembrane

**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 RG200636