

Product datasheet for **RG216542**

ICAM2 (NM_001099786) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ICAM2 (NM_001099786) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ICAM2
Synonyms: CD102
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216542 representing NM_001099786
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTCTTTCGGTTACAGGACCCTGACTGTGGCCCTTCCACCCTGATCTGCTGTCCAGGATCGGATG
 AGAAGGTATTCGAGGTACACGTGAGGCCAAAGAAGCTGGCGGTTGAGCCCAAAGGGTCCCTCGAGGTCAA
 CTGCAGCACCACCTGTAACCAGCCTGAAGTGGTGGTCTGGAGACCTCTCTAGATAAGATTCTGCTGGAC
 GAACAGGCTCAGTGAAACATTACTTGGTCTCAAACATCTCCCATGACACGGTCTCCAATGCCACTTCA
 CCTGCTCCGGGAAGCAGGAGTCAATGAATTC AACGTCAGCGTGTACCAGCCTCCAAGGCAGGTCATCCT
 GACACTGCAACCCACTTTGGTGGCTGTGGCAAGTCCTTACCATTGAGTGCAGGGTGCCACCGTGGAG
 CCCCTGGACAGCCTCACCTCTTCTGTTCCGTGGCAATGAGACTCTGCACTATGAGACCTTCGGGAAGG
 CAGCCCCGTCTCCGAGGAGGCCACAGCCACATTAACAGCACGGCTGACAGAGAGGATGGCCACCGCAA
 CTTCTCTGCCTGGCTGTGCTGGACTTGATGTCTCGCGGTGGCAACATCTTTCACAAACTCAGCCCCG
 AAGATGTTGGAGATCTATGAGCCTGTGTCGGACAGCCAGATGGTCATCATAGTCACGGTGGTGTCCGGTGT
 TGCTGTCCCTGTTCTGACATCTGTCTGCTCTGCTTTCATCTTCGGCCAGCACTTGGCCAGCAGCGGAT
 GGGCACCTACGGGTGCGAGCGGCTTGGAGGAGGCTGCCCCAGGCCTTCCGGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216542 representing NM_001099786
 Red=Cloning site Green=Tags(s)

MSSFGYRTLTVLFTLICCPGSDEKVFVHVRPKKLAVEPKGSLEVNCSTTCNQPEVGGLETSLDKILLD
 EQAQWKHYLVSNISHDTVLQCHF TCSGKQESMNSNVSVYQPPRQVILTLQPTLVAVGKSFTIECRVPTVE
 PLDSLTLFLFRGNETLHYETFGKAAPAPQEATATFNSTADREDGHRNFSCLAVLDLMSRGGNIFHKHSAP
 KMLEIYEPVSDSQMVIIIVTVSVLLSLFVTSVLLCFIFGQHLRQRMGTYGVRAAWRRLLPQAFRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001099786

ORF Size: 825 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_001099786.1](#), [NP_001093256.1](#)

RefSeq Size: 1352 bp

RefSeq ORF: 828 bp

Locus ID: 3384

UniProt ID: [P13598](#)

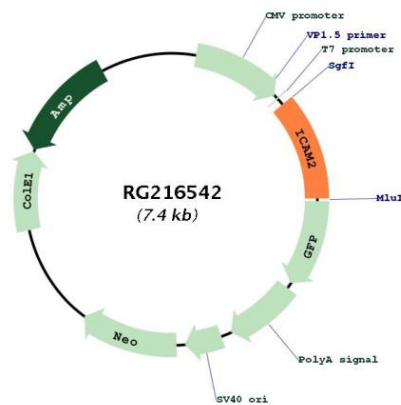
Cytogenetics: 17q23.3

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Natural killer cell mediated cytotoxicity

Gene Summary: The protein encoded by this gene is a member of the intercellular adhesion molecule (ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein may play a role in lymphocyte recirculation by blocking LFA-1-dependent cell adhesion. It mediates adhesive interactions important for antigen-specific immune response, NK-cell mediated clearance, lymphocyte recirculation, and other cellular interactions important for immune response and surveillance. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216542