

## Product datasheet for **RG208919**

### ICAM3 (NM\_002162) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ICAM3 (NM_002162) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ICAM3
Synonyms:	CD50; CDW50; ICAM-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208919 representing NM\_002162  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACCATGGTACCATCCGTGTTGTGGCCAGGGCCTGCTGGACTCTGCTGGTCTGCTGCTGCTGA  
 CCCAGGTGTCCAGGGCAGGAGTTCCTTTGCGGGTGGAGCCCAGAACCCTGTGCTCTCTGCTGGAGG  
 GTCCTGTTTGTGAAGTGCAGTACTGATTGTCCAGCTCTGAGAAAATCGCCTTGAGAGACTCCCTATCA  
 AAGGAGCTGGTGGCCAGTGGCATGGGCTGGGCAGCCTCAATCTCAGCAACGTGACTGGCAACAGTCGGA  
 TCCTCTGCTCAGTGTACTGCAATGGCTCCAGATAACAGGCTCCTCTAACATCACCGTGTACAGGCTCCC  
 GGAGCGTGTGGAGCTGGCACCCCTGCCTCCTTGGCAGCCGGTGGCCAGAACTTCACCCTGCGCTGCCAA  
 GTGGAGGATGGGTCGCCCGGACCAGCCTCACGGTGGTGTGCTTCGCTGGGAGGAGGAGCTGAGCCGGC  
 AGCCCGCAGTGGAGGAGCCAGCGGAGGTCCTGCCACTGTGCTGGCCAGCAGAGACGACCACGGAGCCCC  
 TTTCTCATGCCGCACAGAACTGGACATGCAGCCCCAGGGGCTGGGACTGTTGCTGAACACCTCAGCCCC  
 CGCCAGCTCCGAACCTTTGCTCCTGCCCGTACCCCCCGCGCCTCGTGGCCCCCGGTTCTTGGAGGTGG  
 AACGTCGTGGCCGGTGGACTGCACCCTAGACGGGCTTTTTCCAGCCTCAGAGGCCCCAGGTCACCTGGC  
 GCTGGGGGACCAGATGCTGAATGCGACAGTCAATGAACCACGGGGACACGCTAACGGCCACAGCCACAGCC  
 ACGGCGCGCGCGGATCAGGAGGGTGCCCGGAGATCGTCTGCAACGTGACCCTAGGGGGCAGAGACGGG  
 AGGCCCGGGAGAAGTTCAGCGTCTTTAGCTTCTAGGACCCATTGTGAACCTCAGCGAGCCACCGCCCA  
 TGAGGGGTCCACAGTACCGTGTGATGGCTGGGGCTCGAGTCCAGGTCACGCTGGACGGAGTTCGG  
 GCCCGGGCCCCGGGCAGCCAGCTCAACTCAGCTAAATGCTACCGAGAGTGACGACGACGACGAGTCTCT  
 TCTGCAGTGCCTCTCGAGGTGGACGGGAGTCTTGCACAGGAACAGTACGCTCCAGTGGCAGTCCCT  
 GTATGGTCCCAAAATTGACCGAGCCACATGCCCCAGCACTTGAATGGAAAGATAAAACGAGACACGTC  
 CTGCAGTGCCAAGCCAGGGCAACCCGTACCCGAGCTGCGGTGTTTGAAGGAAGGCTCCAGCCGGGAGG  
 TGCCGGTGGGATCCCGTCTTTCGTCAACGTAACACATAATGGTACTTATCAGTGCCAAGCGTCCAGCTC  
 ACGAGGCAAAACACCCTGGTCTGGTGTGATGGACATTGAGGCTGGGAGCTCCACTTTGCCCCGTCTTC  
 GTGGCGGTGTTACTGACCCTGGGCGTGGTACTATCGTACTGGCCTTAATGTACGCTTTCAGGGAGCACC  
 AACGGAGCGGCAGTTACCATGTTAGGGAGGAGACACCTATCTGCCCTCAGTCTATGCAGCCGACAGA  
 AGCAATGGGGGAAGAACCGTCCAGAGCTGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208919 representing NM\_002162  
 Red=Cloning site Green=Tags(s)

MATMVPSVLWPRACWTLVCCLLTPGVQGEFLLRVPEQNPVLSAGGSLFVNCSTDCPSSEKIALETSL  
 KELVASGMGWAFFNL SNVTGNSRILCSVYCNQSITGSSNITVYRLPERVELAPLPWPQPVGNFTLRCQ  
 VEDGSPRTSLTVVLLRWEEELSRQPAVEEPAEVTATVLSRDDHGAPFSCRTELDMQPQGLGLFVNTSAP  
 RQLRTFVLPVTPPRLVAPRFLEVETSWPVDCTLDGLFPASEAQVYLALGDQMLNATVMNHGDTLATATA  
 TARADQEGAREIVCNVTLGGERREARENLT VFSFLGPIVNLSEPTAHEGSTVTVSCMAGARVQVTLDGVP  
 AAAPGQPAQLQLNATESDDGRSFFCSATLEVDGEFLHRNSSVQLRVLYGPKIDRATCPQHLKWKDKTRHV  
 LQCQARGNPYPPELRCLKEGSSREVPVGI PFFVNVTHNGTYQCQASSRQKYLTVVMDIEAGSSHFVPVF  
 VAVLLTLGVVTVLALMYVFREHQRSYHVREESTYLPLTSMQPTTEAMGEEPSRAE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_002162

**ORF Size:** 1641 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\\_002162.2](#), [NP\\_002153.1](#)

**RefSeq Size:** 1824 bp

**RefSeq ORF:** 1644 bp

**Locus ID:** 3385

**UniProt ID:** [P32942](#)

**Cytogenetics:** 19p13.2

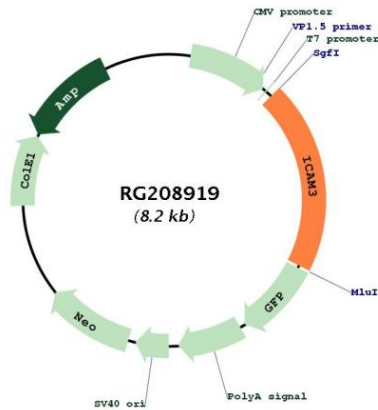
**Domains:** ig, IG, ICAM\_N

**Protein Families:** ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs)

**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 is constitutively and abundantly expressed by all leucocytes and may be the most important ligand for LFA-1 in the initiation of the immune response. It functions not only as an adhesion molecule, but also as a potent signalling molecule. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RG208919