

## Product datasheet for **MG227081**

### Icam1 (NM\_010493) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Icam1 (NM_010493) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Icam1
Synonyms:	CD54; Icam; Icam-1; Ly-4; Ly-47; MAL; MALA-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227081 representing NM\_010493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTCAACCCGTGCCAAGCCACGCTACCTCTGCTCCTGGCCCTGGTCACCGTTGTGATCCCTGGGC  
 CTGGTGATGCTCAGGTATCCATCCATCCCAGAGAAGCCTTCTGCCCCAGGGTGGGTCCGTGCAGGTGAA  
 CTGTTCTTCTCATGCAAGGAGGACCTCAGCCTGGGCTTGGAGACTCAGTGGCTGAAAGATGAGCTCGAG  
 AGTGGACCCAACCTGGAAGCTGTTTGAGCTGAGCGAGATCGGGGAGGACAGCAGTCCCTCTGTGCTTTGAGA  
 ACTGTGGCACCGTGCAGTCGTCGCTTCCGCTACCATCACCAGCTATTTCGTTTCCGGAGCGTGTGGAGCT  
 GAGACCTCTGCCAGCCTGGCAGCAAGTAGGCAAGGACCTCACCCTGCGCTGCCACGTGGATGGTGGAGCA  
 CCGCGGACCCAGCTCTCAGCAGTGTCTCCGTGGGGAGGAGATACTGAGCCGCCAGCCAGTGGGTGGGC  
 ACCCCAAGGACCCCAAGGAGATCACATTACGGTGTGGCTAGCAGAGGGGACCACGGAGCCAATTTCTC  
 ATGCCGCACAGAAGTGGATCTCAGGCCGCAAGGGCTGGCATTGTTCTCTAATGTCTCCGAGGCCAGGCGC  
 CTCGGACTTTTCGATCTTCCAGCTACCATCCAAAGCTCGACACCCTGACCTCCTGGAGGTGGGCACCC  
 AGCAGAAGTTGTTTTGCTCCCTGGAAGGCTGTTTCTGCCTCTGAAGCTCGGATATACCTGGAGCTGGG  
 AGGCCAGATGCCGACCCAGGAGAGCACAAACAGCAGCAGCTCTGTGTACGCCACTGCCTTGGTAGAGGTG  
 ACTGAGGAGTTTCGACAGAACCCTGCCGCTGCGCTGCGTTTTGGAGCTAGCGGACCAGATCCTGGAGACGC  
 AGAGGACCTTAACAGTCTACAATTTTTCAGCTCCGGTCTGACCTGAGCCAGCTGGAGGTCTCGGAAGG  
 GAGCCAAGTAACTGTGAAGTGTGAAGCCACAGTGGTTCGAAGGTGGTCTTCTGAGCGGCGTTCGAGCCT  
 GGGCCACCCACCCGAGTCCAATTCACACTGAATGCCAGCTCGGAGGATCACAAACCGGCGCTTCTTTT  
 GCTCTGCCGCTCTGGAGGTGGCGGAAAGTTCTGTCTAAAAACCAGACCCTGGAAGTGCACGTGTGTA  
 TGGTCTCGGCTGGACGAGACCGACTGCTTGGGAAGTGGACCTGGCAAGAGGGGTCTCAGCAGACTCTG  
 AAATGCCAGGCTGGGGAAACCATCTCCTAAGATGACCTGCAGACGGAAGGCAGATGGTCCCTGCTGC  
 CCATCGGGGTGGTGAAGTCTGTCAAACAGGAGATGAATGGTACATACGTGTGCCATGCCTTTAGCTCCCA  
 TGGGAATGTACCAGGAATGTGTACCTGACAGTACTGTACCCTCTCAAATAACTGGACTATAATCATT  
 CTGGTGCCAGTACTGCTGGTCAATGTGGGCTCGTGTGGCAGCCTTTATGTTTATAACCGCCAGAGAA  
 AGATCAGGATATAAAGTTACAGAAGGCTCAGGAGGAGGCCATAAACTCAAGGGACAAGCCCCACCTCC  
 C

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227081 representing NM\_010493  
 Red=Cloning site Green=Tags(s)

MASTRAKPTLPLLLALVTVVIPGPGDAQVSIHPREAFLPQGSVQVNCSSCKEDLSLGLETQWLKDELE  
 SGPWNKLFELSEIGEDSSPLCFENCGTVQSSASATITAYSFPERVELRPLPAWQQVQKDLTLRCHVDGGA  
 PRTQLSAVLLRGEEILSRQPVGGHPKDPKEITFTVLASRGDHGANFSCRTELDLRPQGLALFSNVSEARR  
 LRTFDLPATIPKLDTPDLLEVGTQQKLFCSLEGLFPASEARIYLELGGQMPTQESTNSSDSVSATALVEV  
 TEEFDRTLPLRCVLELADQILETQRTLTVYNFSAPVLTLSQLEVSEGSQVTKCEAHSGSKVLLSGVEP  
 GPPTPQVQFTLNASSEDHKRRFFCSAALEVAGKFLSKNQTLLEHVLVYGPRLDETDCLEGNWTWQEGSQTL  
 KCQAWGNPSPKMTCRKADGALLPIGVVKSVMQEMNGTYVCHAFSSHGNVTRNVYLTVLVYHSQNNWTIII  
 LVPVLLVIVGLVMAASYVYNRQRKIRIYKLVKQAEIAIKLKGQAPPP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010493

**ORF Size:** 1611 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

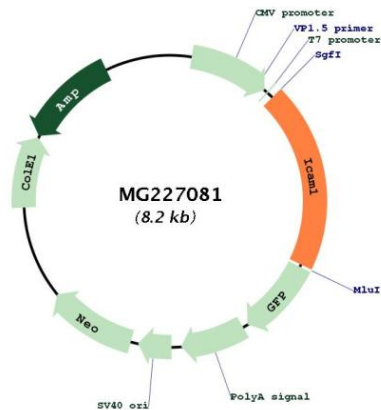
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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:	<a href="#">NM_010493.2</a> , <a href="#">NP_034623.1</a>
RefSeq Size:	2540 bp
RefSeq ORF:	1614 bp
Locus ID:	15894
UniProt ID:	<a href="#">P13597</a>
Cytogenetics:	9 7.69 cM
Gene Summary:	This gene encodes an integral membrane protein that binds leukocyte adhesion protein LFA-1. It participates in the innate immune response. [provided by RefSeq, Aug 2016]

**Product images:**



Circular map for MG227081