

Product datasheet for **MG203730**

Icam2 (NM_010494) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Icam2 (NM_010494) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Icam2
Synonyms:	CD102; Icam-2; Ly-60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203730 representing NM_010494 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCTTTTGCTTGCTGGAGCCTGTCTTCTTATCCTGTTCTACAGCCCAGGGTCTGGTGAGAAGG
CCTTTGAGGTCTACATATGGTCCGAGAAGCAGATAGTAGAAGCCACAGAGTCTTGAAAATCAACTGCAG
CACCAACTGCGCAGCCCCAGACATGGGCGCCTGGAGACGCCACGAATAAAATAATGTTGAAGAGCAT
CCTCAAGGAAGTGAAACAGTTCTTAGTCTCAAACGTCTCAAAGACACGGTCTTCTTTTGCCATTTCA
CGTGTTCCGGAAAGCAGCACTCGGAGAGTCTCAACATCAGGGTGTACCAGCCTCCAGCTCAAGTCACACT
GAAGCTGCAGCCGCTCGGGTGTGGTGAAGACTTCACCATTGAGTGCACGGTGTCCCTGTGCAG
CCCCTTGAGAGGCTCACCTCTCTCTGCTCCGTGGCAGAGAGACCCTGAAGAATCAGACCTTTGGGGGAG
CAGAACTGTCCCAAGAGGCCACAGCCAGTTCAACAGCACAGCTCTGAAAAAGGACGGTCTCAACTT
TTCCTGCCAGGCTGAGCTGGATCTACGGCCCCATGGTGGGTATATCATCCGACGATCTCGGAGTACCAG
ATCCTTGAAGTCTATGAGCCGATGCAGGACAACCAATGGTCATCATCATCGTGGTGGTCAACTACTGC
TGTTCTATTTGTGACATCTGTCTGCTATGCTTTATCTTTGGCCAGCACTGGCAGAGAAGACGGACAGG
CACCTACGGGGTGCTAGCTGCTGGAGGAGGCTGCCCCGAGCCTTCGGGCACGTCCCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203730 representing NM_010494
 Red=Cloning site Green=Tags(s)

MSSFACWSLSLLILFYSPGSGEKAFEVYIWSEKQIVEATESWKINCSTNCAAPDMGGLETPTNKIMLEEH
 PQGKWKQFLVSNVSKDTVFFCHF TCSGKQHSESLNIRVYQPPAQVTLKLQPPRVFVGEDFTIECTVSPVQ
 PLERLTL SLLRGRETLKNQTFGGAETVPQEATATFNSTALKKDG LNFSCQAE LDRPHGGYIIRSISEYQ
 ILEVYEPMQDNQMVIIIVVVSILLFLFVTSVLLCFIFGQHWRRRTGTYGVLAAWRRLPRAFRRPV

TRTRPLE - GFP Tag - V

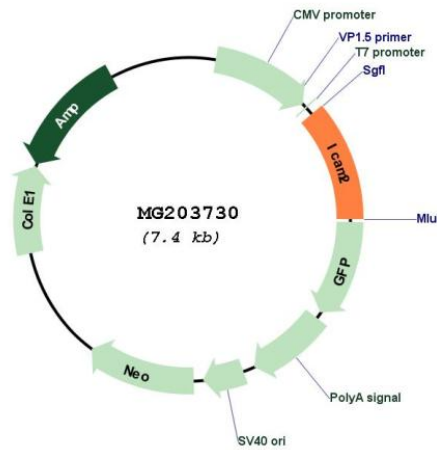
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010494

ORF Size: 831 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:	<ol style="list-style-type: none">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_010494.2
RefSeq Size:	1168 bp
RefSeq ORF:	834 bp
Locus ID:	15896
UniProt ID:	P35330
Cytogenetics:	11 69.09 cM
Gene Summary:	ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). ICAM2 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.[UniProtKB/Swiss-Prot Function]