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Product datasheet for RG216706

ICAM2 (NM_001099788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICAM2 (NM_001099788) 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:	>RG216706 representing NM_001099788 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCTCTTTCGGTTACAGGACCCTGACTGTGGCCCTCTTCACCCTGATCTGCTGTCCAGGATCGGATG AGAAGGTATTCGAGGTACACGTGAGGCCAAAGAAGCTGGCGGTTGAGCCCAAAGGGTCCCTCGAGGTCAA CTGCAGCACCACCTGTAACCAGCCTGAAGTGGGTGGTCTGGAGACCTCTCTAGATAAGATTCTGCTGGAC GAACAGGCTCAGTGGAAACATTACTTGGTCTCAAACATCTCCCATGACACGGTCCTCCAATGCCACTTCA CCTGCTCCGGGAAGCAGGAGTCAATGAATTCCAACGTCAGCGTGTACCAGCCTCCAAGGCAGGTCATCCT GACACTGCAACCCACTTTGGTGGCTGTGGGCAAGTCCTTCACCATTGAGTGCAGGGTGCCCACCGTGGAG CCCCTGGACAGCCTCACCCTCTTCCTGTTCCGTGGCAATGAGACTCTGCACTATGAGACCTTCGGGAAGG CAGCCCCTGCTCCGCAGGAGGCCACAGCCACATTCAACAGCACGGCTGACAGAGAGGATGGCCACCGCAA CTTCTCCTGCCTGGCTGTGCTGGACTTGATGTCTCGCGGTGGCAACATCTTTCACAAACACTCAGCCCCG AAGATGTTGGAGATCTATGAGCCTGTGTCGGACAGCCAGATGGTCATCATAGTCACGGTGGTGTCGGTGT TGCTGTCCCTGTTCGTGACATCTGTCCTGCTCTGCTTCATCTTCGGCCAGCACTTGCGCCAGCAGCGGAT GGGCACCTACGGGGTGCGAGCGGCTTGGAGGAGGCTGCCCCAGGCCTTCCGGCCA ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

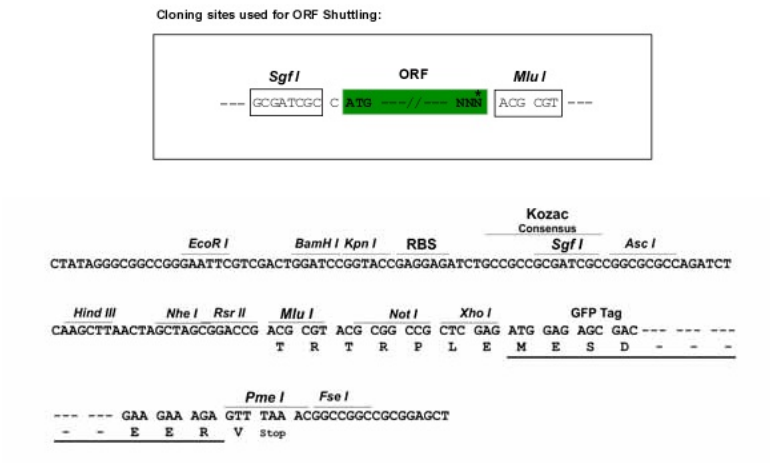
>RG216706 representing NM_001099788
Red=Cloning site Green=Tags(s)

MSSFGYRTLTVALFTLICCPGSDEKVFEVHVRPKKLAVEPKGSLEVNCSTTCNQPEVGGLETSLDKILLD
EQAQWKHYLVSNISHDTVLQCHFTCSGKQESMNSNVSVYQPPRQVILTLQPTLVAVGKSFTIECRVPTVE
PLDSLTLFLFRGNETLHYETFGKAAPAPQEATATFNSTADREDGHRNFSCLAVLDLMSRGGNIFHKHSAP
KMLEIYEPVSDSQMVIIVTVVSVLLSLFVTSVLLCFIFGQHLRQQRMGTYGVRAAWRRLPQAFRP

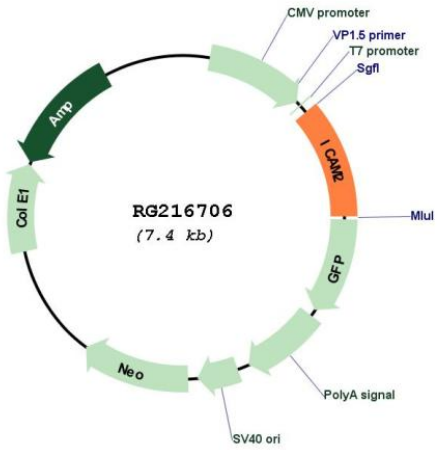
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001099788

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_001099788.1, NP_001093258.1
RefSeq Size:	1235 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]