

Product datasheet for **RG215092**

ICAM4 (NM_022377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ICAM4 (NM_022377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ICAM4
Synonyms:	CD242; LW
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215092 representing NM_022377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCTCTGTTCCCTCTGTCGCTGCTGTTTTTTTTGGCGGCCCTACCCGGGAGTTGGGAGCGCGC
TGGGACGCCGACTAAGCGGGCGCAAAGCCCCAAGGGTAGCCCTCTCGCGCCCTCCGGGACCTCAGTGCC
CTTCTGGGTGCGCATGAGCCCGGAGTTCGTGGCTGTGCAGCCGGGAAGTCAGTGCAGCTCAATTGCAGC
AACAGCTGTCCCCAGCCGAGAATTCAGCCTCCGCACCCCGCTCGGCAAGGCAAGACGCTCAGAGGGC
CGGTTGGGTGTCTTACCAGCTGCTCGAGTGAGGGCCTGGAGCTCCCTCGCGCACTGCCTCGTGACCTG
CGCAGGAAAAACAGCTGGGCCACTCCAGGATCACCGCCTACAAACCGCCACAGCGTATTTGGAG
CCTCCGGTCTTAAAGGGCAGGAAATACACTTTGCGCTGCCACGTGACGCAGGTGTTCCCGGTGGGCTACT
TGGTGGTACCCTGAGGCATGGAAGCCGGGTATCTATTCCGAAAGCCTGGAGCGCTTACCAGCCCTGGA
TCTGGCCAACGTGACCTTACCTACGAGTTTGTGCTGGACCCCGCGACTTCTGGCAGCCCGTATCTGC
CACGCGCCCTCAATCTCGACGGCCTGGTGGTCCGCAACAGCTCGGCACCCATTACACTGATGCTCGGTG
AGCACCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215092 representing NM_022377
Red=Cloning site Green=Tags(s)

MGSLFPLSLLFFLAAAYPGVGSALGRRTKRAQSPKGSPLAPSGTSVPFWVRMSPEFVAVQPGKSVQLNCS
 NSCPQPQNSSLRTPLRQGKTLRPGWVSYQLLDVRAWSSLAHCLVTCAGKTRWATSRITAYKPPHSVILE
 PPVLKGRKYTLRCHVTQVFPVGYLVVTLRHGSRVIYSESLERFTGLDLANVTLTYEFAAGPRDFWQFPVIC
 HARLNL DGLVVRNSSAPITLMLGEAPL

TRTRPLE - GFP Tag - V

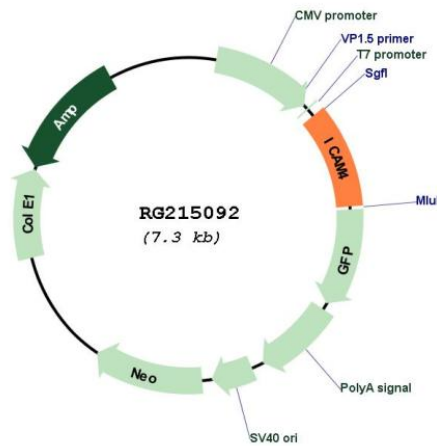
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_022377

ORF Size: 711 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_022377.3 , NP_071772.1
RefSeq Size:	1390 bp
RefSeq ORF:	714 bp
Locus ID:	3386
Cytogenetics:	19p13.2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes the Landsteiner-Wiener (LW) blood group antigen(s) that belongs to the immunoglobulin (Ig) superfamily, and that shares similarity with the intercellular adhesion molecule (ICAM) protein family. This ICAM protein contains 2 Ig-like C2-type domains and binds to the leukocyte adhesion LFA-1 protein. The molecular basis of the LW(A)/LW(B) blood group antigens is a single aa variation at position 100; Gln-100=LW(A) and Arg-100=LW(B). Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]