

Product datasheet for **RG222248**

CD300 (CD300LF) (NM_139018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD300 (CD300LF) (NM_139018) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD300LF
Synonyms:	CD300f; CLM-1; CLM1; IgSF13; IREM-1; IREM1; LMIR3; NKIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222248 representing NM_139018 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCCTGCTGACTCTACCTGCTCCTTCTGGCTCTCAGGCTACTCCATTGTCACTCAAATCACCG
GTCCAACAACAGTGAATGGCTTGGAGCGGGCTCCTTGACCGTGCAGTGTGTTACAGATCAGGCTGGGA
GACCTACTTGAAGTGGTGGTGTGCGAGGAGCTATTTGGCGTACTGCAAGATCCTTGTTAAAACAGTGGG
TCAGAGCAGGAGGTGAAGAGGGACCGGGTCCATCAAGGACAATCAGAAAAACCGCACGTTCACTGTGA
CCATGGAGGATCTCATGAAAAGTATGCTGACACTTACTGGTGTGGAATTGAGAAAAGTGGAAATGACCT
TGGGGTACAGTTCAAGTGACCATTGACCCAGCACAGTACCCAAGAAGAACTAGCAGCTCCCCAACT
CTGACCGGCCACCACTTGACAACAGGCACAAGCTCCTGAAGCTCAGTGTCTCTGCCCTCATCTTCA
CCATATTGCTGCTGCTTTTGGTGGCCGCTCACTCTTGGCTTGGAGGATGATGAAGTACCAGCAGAAAGC
AGCCGGGATGTCCCAGAGCAGGTACTGCAGCCCTGGAGGGCGACCTCTGCTATGCAGACCTGACCCTG
CAGCTGGCCGGAACCTCCCCGAAAAGGCTACCACGAAGCTTTCCTCTGCCAGGTTGACCAGGTGGAAG
TGAATATGTACCATGGCTTCTTGGCGAAGGAGGACATTTCTATGCATCTCTGACCTTGGGTGCTGA
GGATCAGGAACCGACCTACTGCAACATGGCCACCTCAGTAGCCACCTCCCCGGCAGGGGCCCTGAGGAG
CCCACGGAATACAGCACCATCAGCAGGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222248 representing NM_139018
 Red=Cloning site Green=Tags(s)

MPLLTLYLLLFWLSGYSIVTQITGPTTVNGLERGLSTVQC VYRSGWETYLKWWCRGAIWRDCKILVKTSG
 SEQEVKRDRVSIKDNQKNRFTFTMEDLMKTDADTYWCGIEKTGNLGVTVQVTIDPAPVTQEETSSSPT
 LTGHLDNRHKLLKLSVLLPLIFTILLLLLVAASLLAWRMMKYQQKAAGMSPEQVLQPLEGDLCYADLTL
 QLAGTSPQKATTKLSSAQVDQVEVEYVTMASLPKEDISYASLTLGAEDQEPTYCNMGHLSHLPGRGPPEE
 PTEYSTISRP

TRTRPLE - GFP Tag - V

Restriction Sites:

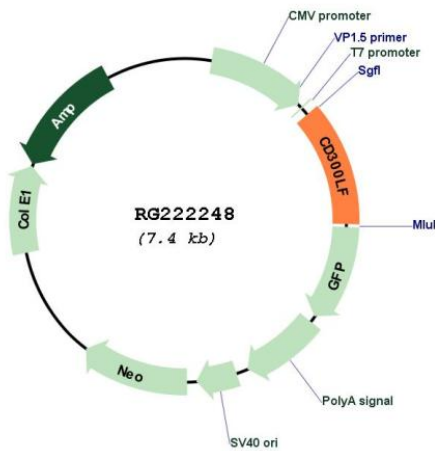
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_139018

ORF Size: 870 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_139018.5
RefSeq Size:	1794 bp
RefSeq ORF:	873 bp
Locus ID:	146722
UniProt ID:	Q8TDQ1
Cytogenetics:	17q25.1
Domains:	IG
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the CD300 protein family. Members of this family are cell surface glycoproteins with a single IgV-like extracellular domain, and are involved in the regulation of immune response. The encoded protein is an inhibitory receptor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]