

## Product datasheet for **RC239288**

### CD22 (NM\_001278417) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD22 (NM_001278417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD22
Synonyms:	SIGLEC-2; SIGLEC2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239288 representing NM\_001278417  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTCTGTGGCTCCTAGAGGGGTTCCAATGAGGCAGGCTGCTGTACCTCGACCTCCTTGACCATCA  
AGTCTGTCTTACCCGGAGCGAGCTCAAGTTCTCCACAGTGGAGTCACCATGGGAAGATTGTGACCTG  
CCAGTTCAGGATGCAGATGGGAAGTTCCTCTCCAATGACACGGTGCAGCTGAACGTGAAGCACACCCCG  
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AGGTCAGCAGCAGCAACCCGGAGTACACGACGGTATCCTGGTCAAGGATGGGACCTCGTGAAGAAGCA  
GAATACATTACGCTAACCTGCGCAAGTGACCAAGGACCAGAGTGGGAAGTACTGCTGTGACGCTCC  
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GTCCTCAGAGATGCAGAGACCTCCCCGGACTGCGATGACACGGTCACTTATTCAGCATTGCACAAGCGC  
CAAGTGGGCGACTATGAGAACGTCATTCCAGATTTCCAGAAGATGAGGGGATTCATTACTCAGAGCTGA  
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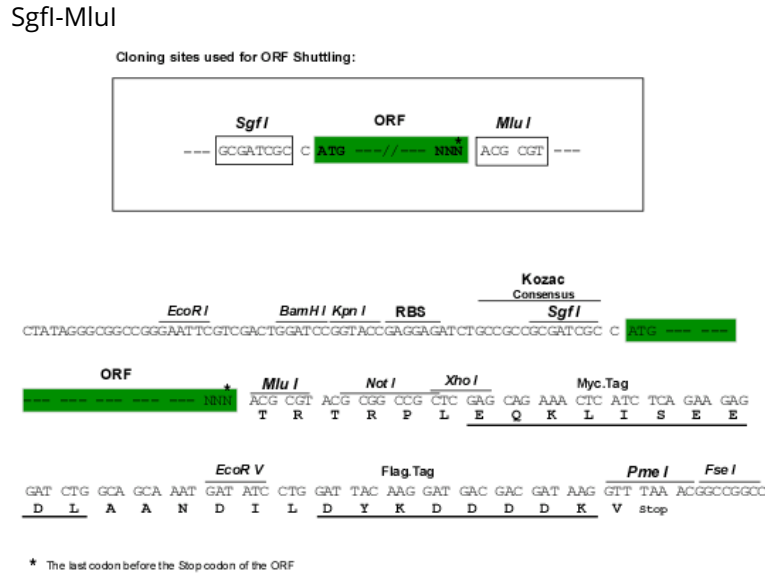
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:** >RC239288 representing NM\_001278417  
 Red=Cloning site Green=Tags(s)

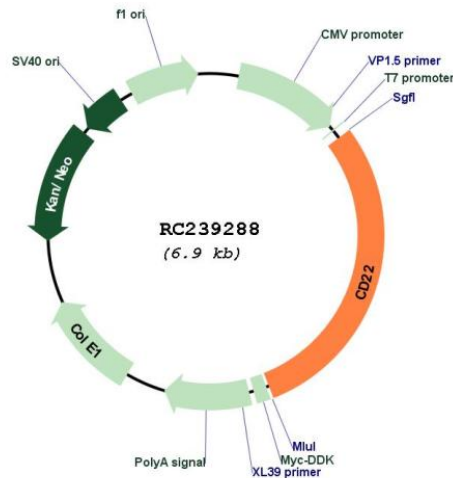
MSLWLLEGVPMRQAAVTSTSLTIKSVFTRSELKFSQWSHHGKIIVTCQLQDADGKFLSNDTVQLNVKHTP  
 KLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFFTLNLREVTKDQSGKYCCQVS  
 NDVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSLANPLPTNYTWYHNGKEMQGRTEEKVH  
 IPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPST  
 RYEWKPHGAWEEPVLGVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVVRVRIKPLSEIHSG  
 NSVSLQCDFSSSHPKVEVQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNISIGQTASKAWTLEVLVA  
 PRRLRVSMSPGDQVMEGKSATLTCESDANPPVSHYTWFDWNNQSLPYHSQKLRLEPVKVQHSGAYWCQGT  
 NSVGKGRSPLSTLTVYYSPETIGRRVAVGLGSCLAAILILAICGLKLRRWKRTQSQQGLQENSSGQSFV  
 RNKKVRRAPLSEGPLSLGCYNPMMEDGISYTTLRPEMNIPTGDAESSEMQRPPPCDDTDTYSALHKR  
 QVGDYENVIPDFPEDEGIHYSELIQFGVGERPQAQENVYVILKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**  
**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001278417

ORF Size: 2025 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\\_001278417.2](#)

RefSeq Size:	3132 bp
RefSeq ORF:	2028 bp
Locus ID:	933
UniProt ID:	<a href="#">P20273</a>
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	B cell receptor signaling pathway, Cell adhesion molecules (CAMs), Hematopoietic cell lineage
MW:	75.8 kDa
Gene Summary:	<p>Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules.</p> <p>[UniProtKB/Swiss-Prot Function]</p>