

Product datasheet for **MC229078**

Cd22 (NM_009845) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd22 (NM_009845) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd22
Synonyms:	A530093D23; Lyb-8; Lyb8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229078 representing NM_009845
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGTCCATTACCTGTGGCTCCTCTTGATCCTAGGACACGTGGCTTCGGCTCGGTACAGCTCAGCAA
 ATGATTGGACCGTTGACCATCCCCAAACCTCTTTGCCTGGGAGGGAGCCTGCATCAGGATTCCTTGCAA
 GTACAAAACCTCCACTACCCAAGGCACGTCTGGACAACATCCTCCTTTTTTCAGAACTATGAGTTTGACAAG
 GCCACCAAGAAATTCACAGGAACTGTCTGTACAACGCCACAAAGACTGAGAAGGACCCAGAGTCTGAGC
 TGTACCTTTCTAAGCAAGGGAGAGTAACATTTCTGGGAACAGAAATAGACAATTGTACCCTGAAAAATCCA
 CCCGATACGTGCCAATGACAGTGGGAATCTGGGGTTGAGGATGACCGCAGGGACTGAACGATGGATGGAG
 CCCATTACCTCAATGTCTCGGAGAAACCGTTCCAACCTTACATCCAGATGCCATCAGAAATCCGGGAAT
 CCCAAAGTGTCACTCTGACCTGTGGACTGAATTTCTCCTGCTTTGGGTATGACATCCTCTTGAAGTGGTT
 CCTAGAAGATTCTGAGATCACCTCCATCACCTTCTGTACCTCCATCACCTTCTGTACCTCTTGTACCTCTCC
 ATTAAGAATGTCTATACAGAGAGCAAGCTCACCTTCCAACCAAAGTGGACGGACCACGGAAGAGTGTGA
 AGTGCCAAGTCCAGCACTCCTCCAAAGTCTCTCAGAGCGCACTGTGCGTCTGGATGTTAAGTATACCCC
 GAAGCTGGAGATCAAGGTCAATCCCACAGAGGTGGAAAAGAACTTCTGTGACCATGACATGCCGGGTT
 AACAGCAGCAACCCGAAACTCAGGACCGTGGCGGTGTCTTGGTTCAAGGATGGGCGCCCCCTAGAGGATC
 AGGAACTGGAACAGGAACAACAGATGTCCAAGTAATTCTGCATTCAAGTACCAAGGACATGAGAGGGAA
 ATACCGGTGCCAGGCTTCCAACGACATAGGCCAGGAGAGTGGGAAGAAGTGGAACTCACGGTCACTAT
 GCTCCAGAACCCTCCAGGGTTCACATCTACCCTTCCCCGCTGAAGAGGGACAGTCAGTAGAGCTGATTT
 GTGAGTCACTGGCCAGTCCAAGTGAACAAACTACACCTGGTATCACAAACAGGAAACCTATACCTGGAGA
 CACCCAAGAGAAGCTCCGCATCCCTAAAGTCTCCCCGTGGCATGCTGGGAATTACTCTTGCTTGGCAGAG
 AACCGTCTGGGTGATGGAAGATAGACCAGGAAGCTAAGCTGGATGTCCATTATGCTCCCAAGGCGGTGA
 CCACAGTGATTACAGACTTACACCAATCCTGGAAGGAGACAGTGTGACCCTGGTCTGTAGGTACAACCTC
 CAGCAATCCAGACGTCACTCCTACAGATGGAACCCTCAAGTCTGGGAGTGTGCTCAAACCCGGAGTG
 CTGAGGATTACAGAAAGTACATGGGATTCATGCCTGTCAGCTGTGCTGCCTGCAACCACAAGTGTTCGT
 GGGCCCTCCCTGTATCCTGAATGTCCACTACGCCCCAGAGACGTGAAGTACTGAAGTAAGCCCCGC
 ATCAGAGATCCGCGCTGGCAGCGTGTCTCCTCAATGCGACTTCGCAGAGAGCAACCCGGCAGAGGTC
 CGTTCTTCTGGAAGAAGATGGGAGTCTCGTGCAGGAAGGGAGGTACCTGAGCTTCGGCTCCGCTCTCC
 CAGAAGATTCTGGAAATTATAACTGCATGGTCAACAACCTCCATCGGAGAGACCTTGTACAGGCCTGGAA
 CCTCAAGTGTGTATGCTCCTCGGAGGCTGCGTGTGTCATCAGCCCTGGGGACCATGTGATGGAGGGG
 AAGAAGGCCACCTTGTCTGTGAGAGTGTGCCAATCCGCCCATCTCACAGTACACCTGGTTTGACTCCA
 GTGGCCAAGACCTCCACTCCTCAGGCCAGAAACTGAGACTGGAACCCCTGGAGGTCCAACACACGGGTTT
 CTACCGCTGCAAAGGGACCAATGGGATAGGCACAGGAGAGTACCACCCAGCACCTCACTGTCTACTAC
 AGTCCAGAGACCATCGGCAAGCGGTCGCTTGGGACTAGGCTTCTGCCTGACTATCTGCATCCTGGCCA
 TCTGGGGATGAAAATCCAGAAAAATGGAAGCAAAACCCAGCCAGCAGGGGCTTCAGGAAAATCCAG
 TGGCCAGAGCTTTTTGTGAGGAACAAAAGGCTAGGAGGACCCCTCTCTCAGAAGGCCCAATCCCAAG
 GGATGCTACAATCCGGCAATGGATGACACCGTTAGTTATGCCATCTTGGCTTTCCAGAGAGTGACACGC
 ACAAACTGGAGATGACAGGACCCAGCAACACAGGCTCCTCCTCAAACAACAGCGACTCGGTCACTTA
 CTCGGTGATACAGAAGCGGCTATGGGGATTATGAGAATGTGAATCCGAGCTGCCCGGAGGATGAGAGC
 ATCCATTACTCAGAGCTGGTTCAGTTTGGGGCTGGTAAGCGGCCCCAGGCAAAGGAGACGTAGACTATG
 TGACCCTCAAGCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_009845

Insert Size:	2607 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_009845.3</u> , <u>NP_033975.3</u>
RefSeq Size:	3972 bp
RefSeq ORF:	2607 bp
Locus ID:	12483
UniProt ID:	<u>P35329</u>
Cytogenetics:	7 19.26 cM
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> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>