

Product datasheet for **MC222250**

Cd22 (NM_001043317) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd22 (NM_001043317) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cd22
Synonyms:	A530093D23; Lyb-8; Lyb8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222250 representing NM_001043317
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCGTCCATTACCTGTGGCTCCTCTTGATCCTAGGACACGTGGCTTCGGCTCGGTACAGCTCAGCAA
 ATGATTGGACCGTTGACCATCCCCAAACCTCTTTGCCTGGGAGGGAGCCTGCATCAGGATTCCTTGCAA
 GTACAAAACCTCCACTACCCAAGGCACGTCTGGACAACATCCTCCTTTTTTTCAGAACTATGAGTTTGACAAG
 GCCACCAAGAAATTCACAGGAACTGTCCTGTACAACGCCACAAAGACTGAGAAGGACCCAGAGTCTGAGC
 TGTACCTTTCTAAGCAAGGGAGAGTAACATTTCTGGGAACAGAAATAGACAATTGTACCCTGAAAAATCCA
 CCCGATACGTGCCAATGACAGTGGGAATCTGGGGTTGAGGATGACCGCAGGGACTGAACGATGGATGGAG
 CCCATTACCTCAATGTCTCGGAGAAACCGTTCCAACCTTACATCCAGATGCCATCAGAAATCCGGGAAT
 CCCAAAGTGTCACTCTGACCTGTGGACTGAATTTCTCCTGCTTTGGGTATGACATCCTCTTGAAGTGGTT
 CCTAGAAGATTCTGAGATCACCTCCATCACCTTCTGTACCTCCATCACCTTCTGTACCTCTTCTGTACCTCTCC
 ATTAAGAATGTCTATACAGAGAGCAAGCTCACCTTCCAACCAAAGTGGACGGACCACGAAAAGAGTGTGA
 AGTGCCAAGTCCAGCACTCCTCCAAAGTCTCTCAGAGCGCACTGTGCGTCTGGATGTTAAGTATACCCC
 GAAGCTGGAGATCAAGGTCAATCCACAGAGGTGGAAAAGAAATTTCTGTGACCATGACATGCCGGTT
 AACAGCAGCAACCCGAAACTCAGGACCGTGGCGGTGTCTTGGTTCAAGGATGGGCGCCCCCTAGAGGATC
 AGGAACTGGAACAGGAACAACAGATGTCCAAGTAATTTCTGCATTCAGTGACCAAGGACATGAGAGGGAA
 ATACCGGTGCCAGGCTTCCAACGACATAGGCCAGGAGAGTCGGAAGAAGTGGAACTCACGGTGCATAT
 GCTCCAGAACCCTCCAGGGTTCACATCTACCCTTCCCCGCTGAAGAGGGACAGTCAGTAGAGCTGATTT
 GTGACTCACTGGCCAGTCCAAGTGAACAAACTACACCTGGTATCACAAACAGGAAACCTATACCTGGAGA
 CACCCAAGAGAAGCTCCGCATCCCTAAAGTCTCCCCGTGGCATGCTGGGAATTACTCTTGCTTGGCAGAG
 AACCGTCTGGGTGATGGAAGATAGACCAGGAAGCTAAGCTGGATGTCCATTATGCTCCCAAGGCGGTGA
 CCACAGTGATTACAGACTTCACACCAATCCTGGAAGGAGACAGTGTGACCCTGGTCTGTAGGTACAACCTC
 CAGCAATCCAGACGTACCTCCTACAGATGGAACCCTCAAGTTCTGGGAGTGTGCTCAAACCCGGAGTG
 CTGAGGATTACAGAAAGTACATGGGATTCATGCCTGTCAGCTGTGCTGCCTGCAACCACAAGTGTTCGT
 GGGCCCTCCCTGTATCCTGAATGTCCACTACGCCCCAGAGACGTGAAGTACTGAAGTAAGCCCCGC
 ATCAGAGATCCGCGCTGGCAGCGTGTCTCCTCAATGCGACTTCGCAGAGAGCAACCCGGCAGAGGTC
 CGTTCTTCTGGAAGAAGATGGGAGTCTCGTGCAGGAAGGGAGGTACCTGAGCTTCGGCTCCGTCTCCC
 CAGAAGATTCTGGAATTATAACTGCATGGTCAACAACCTCCATCGGAGAGACCTTGTACAGGCCTGGAA
 CCTCAAGTGTGTATGCTCCTCGGAGGCTGCGTGTGCCATCAGCCCTGGGGACCATGTGATGGAGGGG
 AAGAAGGCCACCTTGTCTGTGAGAGTGATGCCAATCCGCCCATCTCACAGTACACCTGGTTTGACTCCA
 GTGGCCAAAGACCTCCACTCCTCAGGCCAGAAACTGAGACTGGAACCCCTGGAGGTCCAACACACGGGTTT
 CTACCGCTGCAAAGGGACCAATGGGATAGGCACAGGAGAGTACCACCCAGCACCTCACTGTCTACTAC
 AGTCCAGAGACCATCGGCAAGCGGTCGCTTGGGACTAGGCTTCTGCCTGACTATCTGCATCCTGGCCA
 TCTGGGGATGAAAATCCAGAAAAATGGAAGCAAAACCCGAGCCAGCAGGGGCTTCAGGAAAATCCAG
 TGGCCAGAGCTTTTTTGTGAGGAACAAAAGGCTAGGAGGACCCCTCTCTCAGAAGGCCCAATCCCAG
 GGATGCTACAATCCGGCAATGGATGACACCGTTAGTTATGCCATCTTGCCTTTCCAGAGAGTGACACGC
 ACAAACTGGAGATGCAGGGACCCAGCAACACAGGCTCCTCCTCAAACAACAGCGACTCGGTCACTTA
 CTCGGTGATACAGAAGCGGCTATGGGGATTATGAGAATGTGAATCCGAGCTGCCCGGAGGATGAGAGC
 ATCCATTACTCAGAGCTGGTTCAGTTTGGGGCTGGTAAGCGGCCCCAGGCAAAGGAGACGTAGACTATG
 TGACCCTCAAGCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2626_b06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001043317

Insert Size:	2607 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001043317.2 , NP_001036782.1
RefSeq Size:	4097 bp
RefSeq ORF:	2607 bp
Locus ID:	12483
UniProt ID:	P35329
Cytogenetics:	7 19.26 cM

Gene Summary:

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.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer protein-coding transcript. 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.