

Product datasheet for **KN216939LP**

CD22 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	CD22
Locus ID:	933
Components:	<p>KN216939G1, CD22 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGTGGCCTGGGCTAGTACT</p> <p>KN216939G2, CD22 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGGCTAGTACTGGGGTTCT</p> <p>KN216939LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p>

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; Luciferase-Puro in green; Right arm in violet

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GGATGGGAAA AAGCAAGCAA GGGAGGAAGG AAGGAAGAAA GGAAGGAGTT CTGGGAAGAG AGAGAGGCTG
CCCCCGCAGG GCTCTCAGTT TGAAGGAGAG GTGCAGCACA CTCAGAAAAA ACTCCCGGCC AGGAGTGGTG
GCTCACACCT GTAGTGCCAG CACTTTGGGA GGCCAAGGCT GGCAGATCAC CTGAGATCAG GAGTTCAAGA
CCAGCCAGGC CAACATGGTG AAACCCCATC TCTACTGAAA ATACAAAAAT CAGCCAGGCG TGGTGGCACC
TGCCTTTACC CAGTACTTGG GGGGGCTGAG GCCAGAGAAA CGCTTGAGCC TGGGAAGCAG AGGTTGCACT
GAGCGGAGAT CACACCACTG CACTCTAGCC TGGGAGACAG AGCAAGACTC TGTCTCAAAA AAAAAGAAAG
AACTCCGTGA GCATCCCAA TGCCACATCC CCATAATGCA ACCAGACCCG GTCCTCCCGG ATCCAGGGGA
AGGGTCGGAG CTCAGTGGGT GAGCAAGAAA AGCCACGTGG AAGAAGTAAG CGGCCAGATG GCTCAAAGAC
AAACTCTCCC CTGCTCAGGC TTGCACCCAG ACACGACACC ACATAGGGTA GGGTGGGGGC AGCGGTGTGT
ATAGATAAAT GTACATACAA ATATATATGT TTCCCATATA TACATACACT TCTCTCATTG CATCCTGCTG
TCTTTGTGTA TCTCTGTATT TCTCCACTA TCTTCAGAGG GAATTCTTTA GTCTTTAGAA AGCTCTCTGC
TGGGTGCAGT GGCTCATGCC TGAATCTCA GCACTTTGTG AGGCTGAGGT GGGAGGATCA CTTGAGGTCA
GGAGTTCAAG GCCAGCTTGG ACAACATAGC AAGACCCCTA TCTCTAAAAA GAATAAAAAA TAAACAAAT
TTTAAAATAA AAAATAACTT TAAAAGAAG GCTCTCATGC CCCCTTAGTA ATGCTTTCTG ATCACTGTGG
TGAGTTCTAG AATACTTGGC TTTCTCTGAC TCAAGTAAAT GGGTTTTTGA GCACCCTGAA ACCCTCTACG
CCTGGGAGGG GGCCTGCGTC TGGATCCCT GCACCTACAG AGCCCTAGAT GGTGACCTGG AAAGCTTCAT
CCTGTTCCAC AATCCTGAGT ATAACAAGAA CACCTCGAAG TTTGATGGGA CAAGACTCTA TGAAAGCACA
AAGGATGGGA

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GE100003, scramble sequence in pCas-Guide vector



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Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_001185099](#), [NM_001185100](#), [NM_001185101](#), [NM_001278417](#), [NM_001771](#)

UniProt ID: [P20273](#)

Synonyms: SIGLEC-2; SIGLEC2

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]

Product images:

