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Product datasheet for SC204405

CD33 (NM_001772) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	CD33 (NM_001772) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CD33
Synonyms:	p67; SIGLEC-3; SIGLEC3
ACCN:	NM_001772
Insert Size:	358 bp
Insert Sequence:	>SC204405 3'UTR clone of NM_001772 The sequence shown below is from the reference sequence of NM_001772. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC ACCGAATACTCAGAGGTCAGGACCCAGTGAGGAACCCACAAGAGCATCAGGCTCAGCTAGAAGATCCAC ATCCTCTACAGGTCGGGGACCAAAGGCTGATTCTTGGAGATTTAACACCCCACAGGCAATGGGTTTATA GACATTATGTGAGTTTCCTGCTATATTAACATCATCTTAGACTTTGCAAGCAGAGAGTCGTGGAATCAA ATCTGTGCTCTTTCATTTGCTAAGTGTATGATGTCACACAAGCTCCTTAACCTTCCATGTCTCCATTTT CTTCTCTGTGAAGTAGGTATAAGAAGTCCTATCTCATAGGGATGCTGTGAGCATTAAATAAAGGTACAC ATGGAAAACACCA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_001772.4

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Summary: Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state (PubMed:10611343, PubMed:15597323, PubMed:11320212). Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans (PubMed:7718872). Upon engagement of ligands such as C1q or syalylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK (PubMed:28325905, PubMed:10887109). These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:10556798, PubMed:10206955, PubMed:10887109). In turn, these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules (PubMed:10206955, PubMed:10887109). One of the repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase/PI3K (PubMed:15597323). [UniProtKB/Swiss-Prot Function]

Locus ID: 945

MW: 13.6

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