# *h*Siglec-2/CD22 VersaClone cDNA

**Catalog Number: RDC1552**

## Specifications:

| | |
|---|---|
| Gene: | *h*CD22 |
| Accession: | NP_001762 |
| Insert size: | 2556bp |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

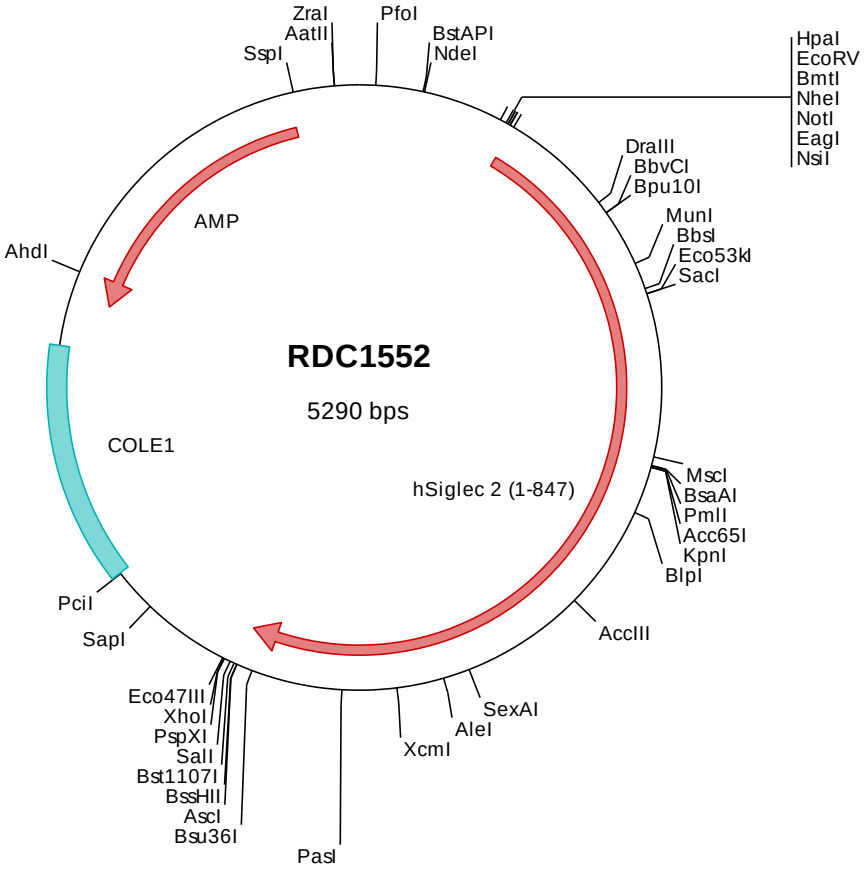
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *h*Siglec-2/CD22 cDNA Plasmid

**CD22 CD22 molecule [ *Homo sapiens* (human) ]**

**Also known as:** SIGLEC2; SIGLEC-2

**Summary:**
Siglec-2 is a member of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It is expressed in the cytoplasm of progenitor B and pre-B cells and on the surface of mature B cells. Siglec-2 is an adhesion molecule that preferentially binds alpha 2,6- linked sialic acid on the same (cis) or adjacent (trans) cells. Interaction of CD22 with trans ligands on opposing cells was found to be favored over the binding of ligands in cis. Alternatively spliced transcripts encoding different proteins have been described.

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## > RDC1552 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcatctcc tcggcccctg gctcctgctc ctggttctag aatacttggc
 501  tttctctgac tcaagtaaat gggtttttga gcaccctgaa accctctacg cctgggaggg ggcctgcgtc tggatcccct gcacctacag agcctagat
 601  ggtgacctgg aaagcttcat cctgttccac aatcctgagt ataacaagaa cacctcgaag tttgatggga caagactcta tgaaagcaca aaggatggga
 701  aggttccttc tgagcagaaa agggtgcaat tcctgggaga caagaataag aactgcacac tgagtatcca cccggtgcac ctcaatgaca gtggtcagct
 801  ggggctgagg atggagtcca agactgagaa atggatggaa cgaatacacc tcaatgtctc tgaaaggcct tttccacctc atatccagct ccctccagaa
 901  attcaagagt cccaggaagt cactctgacc tgcttgctga atttctcctg ctatgggtat ccgatccaat tgcagtggct cctagagggg gttccaatga
1001  ggcaggctgc tgtcacctcg acctccttga ccatcaagtc tgtcttcacc cggagcgagc tcaagttctc cccacagtgg agtcaccatg ggaagattgt
1101  gacctgccag cttcaggatg cagatgggaa gttcctctcc aatgacacgg tgcagctgaa cgtgaagcac accccgaagt tggagatcaa ggtcactccc
1201  agtgatgcca tagtgaggga gggggactct gtgaccatga cctgcgaggt cagcagcagc aacccggagt acacgacggt atcctggctc aaggatggga
1301  cctcgctgaa gaagcagaat acattcacgc taaacctgcg cgaagtgacc aaggaccaga gtgggaagta ctgctgtcag gtctccaatg acgtgggccc
1401  gggaaggtcg gaagaagtgt tcctgcaagt gcagtatgcc ccggaacctt ccacggttca gatcctccac tcaccggctg tggagggaag tcaagtcgag
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1601  caaagatcct cccctggcac gctgggactt attcctgtgt ggcagaaaac attcttggta ctggacagag gggcccggga gctgagctgg atgtccagta
1701  tcctcccaag aaggtgacca cagtgattca aaaccccatg ccgattcgag aaggagacac agtgaccctt tcctgtaact acaattccag taaccccagt
1801  gttacccggt atgaatggaa accccatggc gcctgggagg agccatcgct tggggtgctg aagatccaaa acgttggctg ggacaacaca accatcgcct
1901  gcgcagcttg taatagttgg tgctcgtggg cctcccctgt cgccctgaat gtccagtatg ccccccgaga cgtgagggtc cggaaaatca agccccttc
2001  cgagattcac tctggaaact cggtcagcct ccaatgtgac ttctcaagca gccaccccaa agaagtccag ttcttctggg agaaaaatgg caggcttctg
2101  gggaaagaaa gccagctgaa ttttgactcc atctccccag aagatgctgg gagttacagc tgctgggtga acaactccat aggacagaca gcgtccaagg
2201  cctggacact tgaagtgctg tatgcaccca ggaggctgcg tgtgtccatg agcccggggg accaagtgat ggaggggaag agtgcaaccc tgacctgtga
2301  gagcgacgcc aaccctcccg tctcccacta cacctggttt gactggaata accaaagcct cccctaccac agccagaagc tgagattgga gccggtgaag
2401  gtccagcact cgggtgccta ctggtgccag gggaccaaca gtgtgggcaa gggccgttcg cctctcagca ccctcaccgt ctactatagc ccggagacca
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2601  ccagcagggg cttcaggaga attccagcgg ccagagcttc tttgtgagga ataaaaaggt tagaagggcc cccctctctg aaggccccca ctccctggga
2701  tgctacaatc caatgatgga agatggcatt agctacacca ccctgcgctt tcccgagatg aacataccac gaactggaga tgcagagtcc tcagagatgc
2801  agagacctcc cccggactgc gatgacacgg tcacttattc agcattgcac aagcgccaag tgggcgacta tgagaacgtc attccagatt ttccagaaga
2901  tgaggggatt cattactcag agctgatcca gtttggggtc ggggagcggc ctcaggcaca agaaaatgtg gactatgtga tcctcaaaca ttaaggcgcg
3001  ccagtatact ctagagtcga cacccgggga attcctcgag cgctcgtctc tagcttggcg taatcatggt catagctgtt tcctgtgtga aattgttatc
3101  cgctcacaat tccacacaac atacgagccg gaagcataaa gtgtaaagcc tggggtgcct aatgagtgag ctaactcaca ttaattgcgt tgcgctcact
3201  gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc
3301  tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg
3401  caggaaagaa catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tgctggcgtt tttccatagg ctccgccccc ctgacgagca
3501  tcacaaaaat cgacgctcaa gtcagaggtg gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct ccctcgtgcg ctctcctgtt
3601  ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag cgtggcgctt tctcaatgct cacgctgtag gtatctcagt tcggtgtagg
3701  tcgttcgctc caagctgggc tgtgtgcacg aacccccccgt tcagcccgac cgctgcgcct tatccggtaa ctatcgtctt gagtccaacc cggtaagaca
3801  cgacttatcg ccactggcag cagccactgg taacaggatt agcagagcga ggtatgtagg cggtgctaca gagttcttga agtggtggcc taactacggc
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4001  gtagcggtgg ttttttttgtt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag aagatccttt gatcttttct acgggggtctg acgctcagtg
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4501  agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctacagg catcgtggtg tcacgctcgt cgtttggtat ggcttcattc agctccggtt
4601  cccaacgatc aaggcgagtt acatgatccc ccatgttgtg caaaaaagcg gttagctcct tcggtcctcc gatcgttgtc agaagtaagt tggccgcagt
4701  gttatcactc atggttatgg cagcactgca taattctctt actgtcatgc catccgtaag atgcttttct gtgactggtg agtactcaac caagtcattc
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## > RDC1552 Translated Insert Sequence

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 101  nctlsihpvh lndsgqlglr mesktekwme rihlnvserp fpphiqlppe iqesqevtlt cllnfscygy piqlqwlleg vpmrqaavts tsltiksvft
 201  rselkfspqw shhgkivtcq lqdadgkfls ndtvqlnvkh tpkleikvtp sdaivregds vtmtcevsss npeyttvswl kdgtslkkqn tftlnlrevt
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 401  ilgtgqrgpg aeldvqyppk kvttviqnpm piregdtvtl scnynssnps vtryewkphg aweepslgvl kiqnvgwdnt tiacaacnsw cswaspvaln
 501  vqyaprdvrv rkikplseih sgnsvslqcd fssshpkevq ffwekngrll gkesqlnfds ispedagsys cwvnnsigqt askawtlevl yaprrlrvsm
 601  spgdqvmegk satltcesda nppvshytwf dwnnqslpyh sqklrlepvk vqhsgaywcq gtnsvgkgrs plstltvyys petigrrvav glgsclaili
 701  laicglklqr rwkrtqsqqg lqenssgqsf fvrnkkvrra plsegphslg cynpmmedgi syttlrfpem niprtgdaes semqrpppdc ddtvtysalh
 801  krqvgdyenv ipdfpedegi hyseliqfgv gerpqaqenv dyvilkh
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