

Specifications:

Gene:	<i>h</i> CD1E
Accession:	CAB93150
Insert size:	1180bp
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.

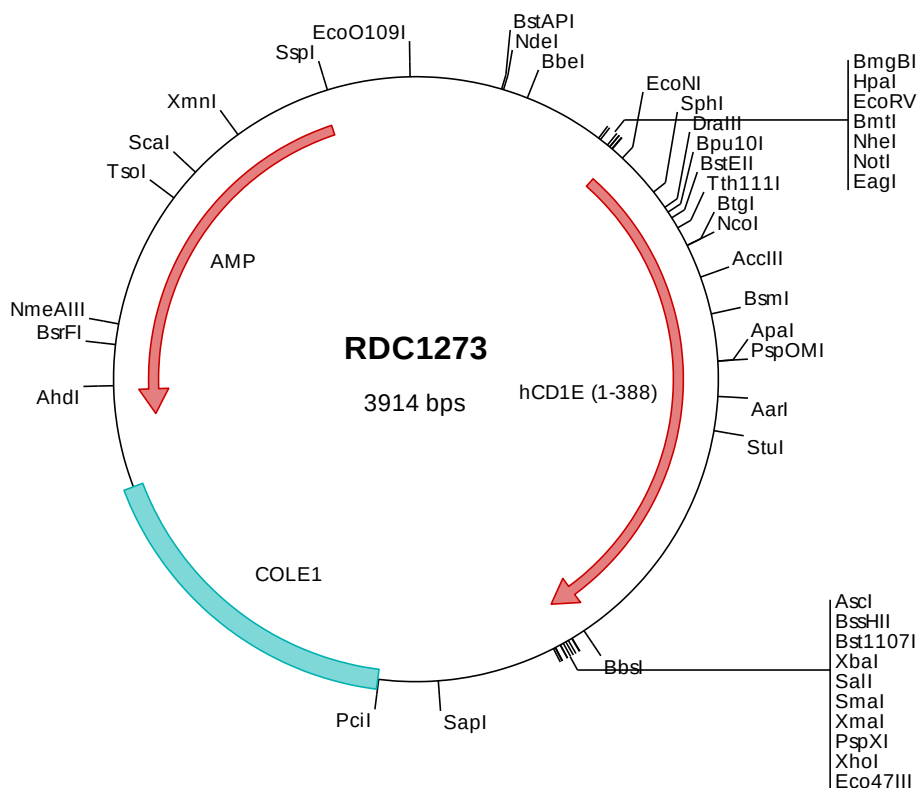
*h*CD1e cDNA Plasmid

CD1E CD1e molecule [*Homo sapiens* (human)]

Also known as: R2; CD1A

Summary:

CD1E is a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. CD1E localizes within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members. Alternatively spliced transcripts encoding different proteins have been described.





> RDC1273 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaagggt ggaatgtctg caaggcgatt aagtttggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tgcgtagcgc gggccgccacc atgtctgtcc tgttcctcct cttcagaggt cctctgtgtc ctggggaaaa
501  tacagcagct cccagcgctc tacaactcta tcatctagca gcagaggagc agctgtcctt ccgcatgctc caaacttctt cctttgcca ccacagctgg
601  gcacacagtg agggctcagg atggctgggt gaacctgcaga ctcatggctg ggacactgtc ttgggcacca tccgctttct gaagccctgg tcccatggaa
701  acttcagcaa gcaggagctg aaaaacttac agtcaactgtt ccagttatata ttccatagtt ttatccggat agtgcaagct tctgctggtc aatttcagct
801  tgaatacccc ttcgagatcc agatattagc tggctgtaga atgaatgccc cacaatatct cttaaatatg gcatatcaag ggtcagattt cctgagtttc
901  caaggaaatt cctgggagcc atctccagga gcagggatcc gggcccgaaa catctgtaaa gtgctcaatc gctacctaga tattaaggaa atactgcaaa
1001  gccctcttgg tcacacctgc cctogatttc tagcggggct catggaagca ggggagtcag aactgaaacg gaaagtgaag ccagagccct ggtgtcctg
1101  tggcccccag cctggccctg gccgtctgca gcttgtgtgc catgtctcag gattctaccc aaagcccggt tgggtgatgt ggatgcgggg tgagcaggag
1201  cagcggggca ctcagcgagg ggaagctctg cctaagtctg acgagacatg gtatctccga gcaaccctgg atgtggcggc tggggaggga gctggcctgt
1301  cctgtcgggt gaaacacagc agtctagggt gccatgatct aatcatccat tgggtggat attccatctt tctcatctct atctgtttga ctgtgatagt
1401  taccctgtgc atattgggtg tagttgactc acgggttaaag aaacagagtt caaataagaa cattctttct cctcacacac ccagccctgt ctttctcatg
1501  ggagccaaca ctcaggacac caagaattca agacatcagt tctgcttggc acaagtatcg tggatcaaga acagagtatt gaagaagtgg aagacacgcc
1601  taaaccaact ctggttaaagg cggcccgagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tggctatagc
1701  tgtttctctg gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagctaaact
1801  cacattaatt gcgtttgcgt cactgcccgc tttccagtcg gaaacacctg cgtgccagct gcattaatga atcgcccaac gcgcggggag aggcggtttg
1901  cgtattgggc gctcttccgc ttctctgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaaggcg gtaatacggg
2001  tatccacaga atcaggggat aacgcaggaa agaactatgt agcaaaaagg cagcaaaaagg ccaggaaccg gcgttgctgg cgtttttcca
2101  taggtctcgc cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accagcgctt tccccctgga
2201  agctccctcg tgcgctctcc tgttccgacc ctgcgcgtta gggctgtgtg cagcaaaacc gtcgcgcttt ctcccttcgg gaagcgtggc gctttctcaa tgctcacgct
2301  gtaggatctc cagttcggtg taggtcggtt gctccaagct gctcgaagct cagcaaaacc ccgttcagcc cgacttatcc gctttatccg gtaactatcg
2401  tcttgagtc aaccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc
2501  ttgaagtgtt ggcctaacta cggctacact agaaggacag tatttgggat ctcgcgctcg ctgaagccag ttaccttcgg aaaagagatt ggtagctctt
2601  gatccggcaa acaaacacc gctggtagcg tgggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggtatc caagaagatc ctttgatctt
2701  ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggatcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa
2801  aaatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggctcta cagttaccaa tgcttaatca gtgaggcacc tatctcagcg atctgtctat
2901  ttcgttcac catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg cccagtgct gcaatgatac cgcgagacct
3001  acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaagg gccgagcgag aagtgttctt gcaactttat ccgcctccat ccagctctat
3101  aattgttgcc gggagagtag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtcgttg
3201  gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctcgatcgt
3301  tgtcagaagt aagtggccg cagtgttatc actcatggtt atggcagcac tgcataatc tcttactgtc atgccatccg taagatgctt tctgtgact
3401  ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtaaa tacgggataa taccgcgcca catagcagaa
3501  ctttaaaagt gctcatcatt ggaaaacgtt cttcgggggc aaaactctca aggatcttac cgtgtttgag atccagttcg atgtaacca ctcgtgcacc
3601  caactgatct tcagcatctt ttactttcac cagcgtttct gggtagcaca aaacaggga gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa
3701  tgttgaatac tcatactctt cctttttcaa tattattgaa cactttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata
3801  aacaaatagg ggttccgcgc acatttcccc gaaaagtggc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaaata ggcgtatcac
3901  gaggcccttt cgtc
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> RDC1273 Translated Insert Sequence

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1   mlllflfleg lccpgentaa pqaqlsyhla aeeqlsfrml qtssfanhs w ahsegsawl g dlqthgwdtv lgtirflkp w shgnfskqel knlqslfqly
101  fhsfirivqa sagqfgleyp feiqilagr mnapiqlnm ayggsdflsf qgisweps g agiragnick vlnryldike ilqslghtc prflaglmea
201  geselkrkvk peawlscgps pgpgrlqlvc hvsghfypkp vwmwmrge q grgtqrqdv l pnatetwylr atldvaagea aglscrkvhs slgghdliih
301  wggysiflil icltvivilv ilvvdsrlk qssnknils phtpspfvm gantqdkns rhqfclaqvs wiknrvlkkw ktrlnqlw
```