*m*DARC VersaClone cDNA

Catalog Number: RDC0049

Specifications:

Gene:	*m*DARC
Accession:	Q9QUI6
Insert size:	1017bp
Package size:	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

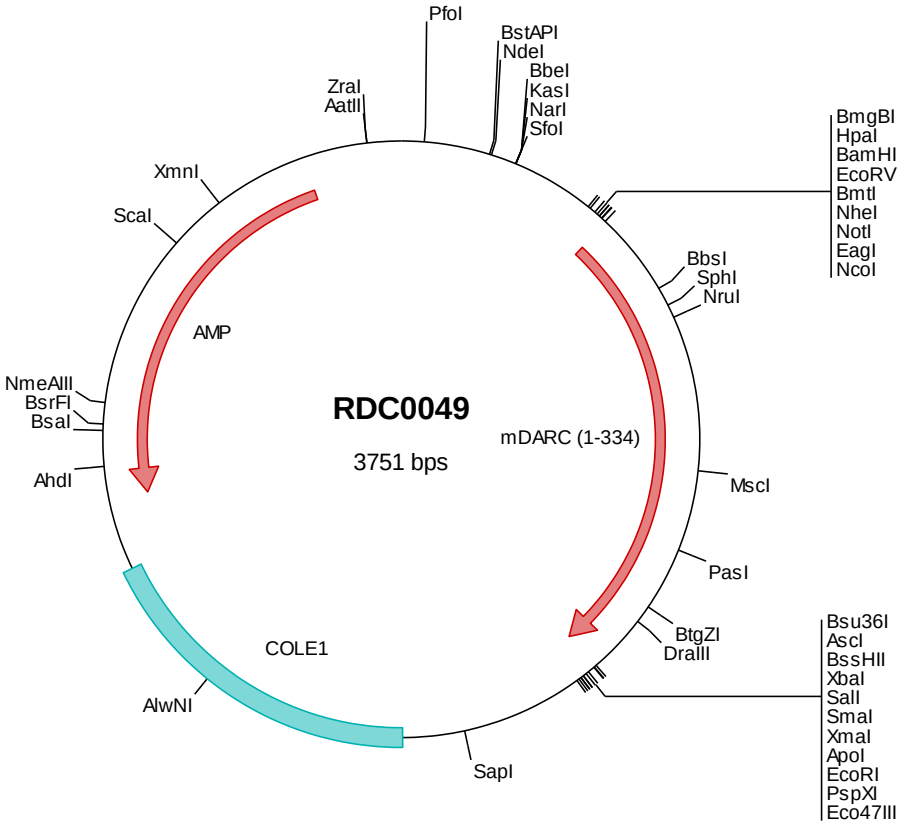
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*DARC cDNA Plasmid

Darc Duffy blood group, chemokine receptor
[*Mus musculus*]

Also known as: FY; Dfy; GPD; CCBP1; CD234; ESTM35; AA162249

Summary:
DARC is a G protein-linked seven transmembrane domain spanning chemokine receptor that binds CC and CXC chemokines including IL-8, GRO, RANTES, MCP-1 and TARC as well as the parasites Plasmodium vivax and Plasmodium knowlesi. It lacks the ability to induce cell responses that are typical for classical chemokine receptors. DARC is expressed on endothelial cells and erythrocytes but not on leukocytes. DARC has three potential functions: first, it binds circulating inflammatory-type chemokines, serving as a repository for future chemokine release; second, it acts as a vehicle by which chemokines are transported from the abluminal to the luminal side of endothelium; third, it complexes with signal-transducing chemokine receptors to create a nonsignaling heterodimer.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0049 Plasmid DNA Sequence

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 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 atggggaact gtctgtatcc ggtggaaacc ctttcactag acaagaatgg
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 601  tcctgtaatc tgcttgacag gtcttccctg cccttcttca tgctcaccag tgtcctgggc atgctggcaa gtggcagcat cctcttcgcg attctcagac
 701  ctttcttcca ctggcagatt tgccccagct ggcccattct ggcagagtta gcagtgggca gtgccctgtt cagcattgca gtgcccatcc tggcaccagg
 801  cttacacagc gcccacagca cagccctatg caacctgggc tactgggtat ggtatacttc tgcttttgcc caagctctgt tgataggatg ctatgcttgc
 901  ctgaatccca gactgaatat tggtcaactc cgtggcttca ccttgggact cagtgtggga ctttggggag cagctgccct ctcagggctg ccagtcgccc
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1301  tgaatgtgac agaagccctg agtatgctgc actgtgtggc taccccactg ctcctggccc tgttctgcca tcagaccacc cgtagatcct tgtcctcact
1401  ctccctccct acaagacagg cttctcaaat ggatgccctt gcaggcaagt cctaaggcgc gccagtatac tctagagtcg acacccgggg aattcctcga
1501  gcgctcgtct ctagcttggc gtaatcatgg tcatagctgt ttcctgtgtg aaattgttat ccgctcacaa ttccacacaa catacgagcc ggaagcataa
1601  agtgtaaagc ctggggtgcc taatgagtga gctaactcac attaattgcg ttgcgctcac tgcccgcttt ccagtcggga aacctgtcgt gccagctgca
1701  ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct cttccgcttc ctcgctcact gactcgctgc gctcggtcgt tcggctgcgg
1801  cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaaga acatgtgagc aaaaggccag caaaaggcca
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2501  gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggtct gacgctcagt ggaacgaaaa ctcacgttaa gggattttgg tcatgagatt
2601  atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc
2701  ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat agttgcctga ctccccgtcg tgtagataac tacgatacgg gagggcttac
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2901  tggtcctgca actttatccg cctccatcca gtctattaat tgttgccggg aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttgttgcc
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3301  gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgct catcattgga aaacgttctt cggggcgaaa actctcaagg atcttaccgc
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3601  atgagcggat acatatttga atgtatttag aaaaataaac aaataggggt tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa gaaaccatta
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> RDC0049 Translated Insert Sequence

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 101  avgsalfsia vpilapglhs ahstalcnlg ywvwytsafa qalligcyac lnprlnigql rgftlglsvg lwgaaalsgl pvalasdvyn gfctfpssrd
 201  mealkythya icftiftvlp ltllaakglk ialskgpgpw vsvlwiwfif wwphgmvlif dalvrsktvl lytcqsqkil damlnvteal smlhcvatpl
 301  llalfchqtt rrslsslslp trqasqmdal agks
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