

Specifications:

Gene:	hDARC
Accession:	NP_001116423
Insert size:	1070bp
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.

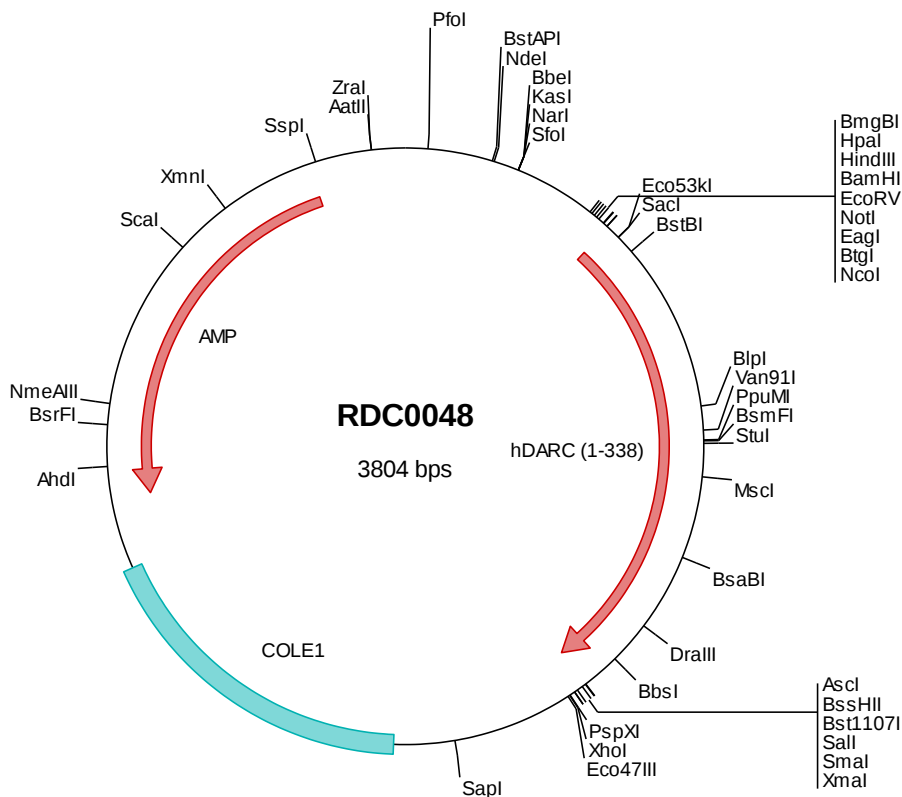
hDARC cDNA Plasmid

DARC Duffy blood group, chemokine receptor
[*Homo sapiens*]

Also known as: FY; Dfy; GPD; GpFy; CCBP1; CD234; WBCQ1

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



> RDC0048 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtgaaata
201  ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatccgata tgcgtagcgc ggccgcacac atggcctcct cggggtatgt cctccaggcg gagctctccc cctcaactga
501  gaactcaagt cagctggact tcgaagatgt atggaattct tccatggtg tgaatgaact cttcccagat ggagactatg gtgccaacct ggaagcagct
601  gcccctgcc actcctgtaa cctgctggat gactctgcac tgcctctctt catctcacc agtgtcctgg gtatcctagc tagcagcaact gtctcttca
701  tgcttttcag acctctcttc cgttggcagc tctgcccctg ctggcctgtc ctggcacagt tggctgtggg cagtgccttc ttcagcattg tgggtcccgt
801  cttggcccca gggctaggta gcactgcag ctctgcccctg tctagcctgg gctactgtgt ctggtatggc tcagcctttg cccaggcttt gctgctaggg
901  tgccatgcat ccctgggcca cagactgggt gcaggccagg tcccaggcct caccctgggg ctcaactgtg gaatttgggg agtggctgcc ctactgaac
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1101  tgccatcttt gtcttgttgc cattgggttt gtttggagcc aaggggctga agaaggcatt gggatatggg ccaggcccc ggatgaatat cctgtgggcc
1201  tggtttattt tctggtggcc tcatggggtg gttctaggac tggatttctt ggtgaggtcc aagctgttgc tgttgtcaac atgtctggcc cagcaggctc
1301  tggacctgct gctgaacctg gcagaagccc tggcaatttt gcactgtgtg gctacgcccc tgcctctcgc cctattctgc caccaggcca cccgacacct
1401  cttgcccctc ctgcccctcc ctgaaggatg gtctctcat ctggacaccc ttggaagcaa atctttaaagt attggattct agagtccatc atcatcatca
1501  tcatttaaagg cgcgccagta tactctagag tgcacacccg gggaattcct cgaagcgtcg tctctagctt ggcgtaatca tggctcatagc tgtttcctgt
1601  gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattag tgagctaaact cacattaatt
1701  gcgttgcgct cactgccgcg tttccagtcg ggaacctgtt cgtgccagct gcattaatga atcgcccaac gcgcggggag aggcggtttg cgtattgggc
1801  gctcttcgcg ttcctcgcct actgactcgc tgcgctcggt cgttcgctg cgcgcagcgg tatcagctca ctcaaaggcg gtaatacggg tatccacaga
1901  atcaggggat aacgcaggaa agaactatgt agcaaaaggc cagcaaaagg ccaggaacgg taaaaaggcc cgtttgtctg cgtttttcca taggctcccg
2001  ccccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accagcggtt tccccctgga agctccctcg
2101  tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtccgctctt ctccctctcg gaagcgttgc gctttctcaa tgcacagct gtatgtatct
2201  cagttcggtg taggtcgttc gctccaagct gggctgtgtg cacgaacccc cgttccagcc cgaccgtgc gccttatccg gtaactatcg tcttgagtc
2301  aaccggtaaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa
2401  ggccataacta cggctacact agaaggacag tatttgggat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa
2501  acaaacaccac gctggttagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgcattt tcttacgggg
2601  tctgacgctc agtgggaacga aaactcacgt taagggattt tggctcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt
2701  ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaacca tgcttaatca gtgaggcacc tatctcagcg atctgtctat ttcgttcatc
2801  catagtgtcc tgactccccg tctgttagat aactacgata cgggagggtt taccatctgg cccagtgct gcaatgatac cgcgagaccc acgctcaccg
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3001  gggaagctag agtaagtagt tgcacagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tctgtctttg gtatggcttc
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3201  aagttggcgg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg taagatgctt tctgtgact ggtgagtact
3301  caaccaagtc attctgagaa tagtgtatgc ggcgacggag ttgctcttgc ccgcgctcaa tacgggataa taccgcgcca catagcagaa ctttaaaagt
3401  gctcatcatt ggaaaacggt cttcggggcg aaaactctca aggatcttac cgtgtgttag atccagttcg atgtaaccca ctctgtcacc caactgatct
3501  tcagcatctt ttactttcac cagcgtttct ggttgagcaa aaacaggga gcaaaaatgcc gcaaaaaggc gaataaggcg gacacggaaa tgttgaatac
3601  tcatactctt cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata aacaaatag
3701  ggttcgcgcg acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaaata ggcgatcac gaggcccttt
3801  cgtc
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> RDC0048 Translated Insert Sequence

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101  laqlavgsal fsivvpvlap glgstrssal cslygcvwyg safaqaillg chaslghrlg agqvpgltlg ltvgiwgvaa ltlpvtlas gasgglctli
201  ystelkalqa thtvaclaif vlplglfga kglkkaigmg pgpwmnilwa wfifwphgv vlglldflvrs kllllstcla qqaldlllnl aealailhcv
301  atplllalfc hqatrtllps lplpegwssh ldtlgsks
```