

## Product datasheet for SC125243

### DARC (ACKR1) (NM\_002036) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DARC (ACKR1) (NM_002036) Human Untagged Clone
Tag:	Tag Free
Symbol:	DARC
Synonyms:	CCBP1; CD234; DARC; DARC/ACKR1; Dfy; FY; GPD; GpFy; WBCQ1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125243 sequence for NM_002036 edited (data generated by NextGen Sequencing)

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ATGGGGAACTGTCTGCACAGGGCGGAGCTCTCCCCTCAACTGAGAACTCAAGTCAGCTG
GACTTCGAAGATGTATGGAATTCTTCTATGGTGTGAATGATTCCCTCCAGATGGAGAC
TATGGTGCCAACCTGGAAGCAGCTGCCCTGCCACTCCTGTAACCTGCTGGATGACTCT
GCACTGCCCTTCTTATCCTCACCAGTGTCTGGGTATCCTAGCTAGCAGCACTGTCTCT
TTCATGCTTTTCAGACCTCTCTCCGCTGGCAGCTCTGCCCTGGCTGGCCTGTCTGGCA
CAGCTGGCTGTGGGCAGTGCCCTCTTCAGCATTGTGGTGGCCGCTTTGGCCCCAGGGCTA
GGTAGCACTCGCAGCTCTGCCCTGTGTAGCCTGGGCTACTGTGTCTGGTATGGCTCAGCC
TTTGCCAGGCTTTGCTGCTAGGGTGCCATGCCTCCCTGGGCCACAGACTGGGTGCAGGC
CAGGTCCCAGGCCTCACCTGGGGCTCACTGTGGGAATTTGGGGAGTGGCTGCCCTACTG
ACACTGCCTGTCACCCTGGCCAGTGGTGTCTTCTGGTGGACTCTGCACCCTGATATACAGC
ACGGAGCTGAAGGCTTTGCAGGCCACACACTGTAGCCTGTCTTGCCATCTTTGTCTTG
TTGCCATTGGGTTTGGTTGGAGCCAAGGGGCTGAAGAAGGCATTGGGTATGGGGCCAGGC
CCCTGGATGAATATCCTGTGGGCCTGGTTATTTTCTGGTGGCCTCATGGGGTGGTTCTA
GGACTGGATTTCTGGTGGGTCGAAGCTGTGCTGTTGTCAACATGTCTGGCCAGCAG
GCTCTGGACCTGCTGCTGAACCTGGCAGAAGCCCTGGCAATTTGCACTGTGTGGCTACG
CCCCTGCTCCTCGCCCTATTCTGCCACCAGGCCACCCGCACCCTTTGCCCTCTCTGCC
CTCCCTGAAGGATGGTCTTCTCATCTGGACACCCTTGAAGCAAATCCTAG

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Clone variation with respect to NM\_002036.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002036 unedited ACTATAGGGCGGCCGGAATTCGGCACCAGGTGCAGGCAGTGGGCGTGGGGTAAGGCTTC CTGATGCCCCCTGTCCCTGCCAGAACCTGATGGCCCTCATTAGTCCTTGGCTCTTATCT TGGAAAGCACAGGCGCTGACAGCCGTCCCAGCCCTTCTGTCTGCGGGCCTGAACCAAACGG TGCCATGGGGAAGTGTCTGCACAGGGCGGAGCTCTCCCTCAACTGAGAAGTCAAGTCA GCTGGACTTCGAAGATGTATGGAATTCTTCCTATGGTGTGAATGATTCCCTCCCAGATGG AGACTATGGTGGCAACCTGGAAGCAGCTGCCCTGCCACTCCTGTAACCTGCTGGATGA CTCTGCACTGCCCTTCTCATCCTCACCAGTGTCTGGGTATCCTAGCTAGCAGCACTGT CCTCTTATGCTTTTCAGACCTCTCTCCGCTGGCAGCTCTGCCCTGGCTGGCCTGTCTCT GGCACAGCTGGTGTGGGCAGTGCCTCTTCAGCATTGTGGTGGCCGTCTTGGCCCCAGG GCTAGGTAGCACTCGCAGCTCTGCCCTGTGTAGCCTGGGCTACTGTGTCTGGTATGGCTC AGCCTTTGCCAGGCTTTGCTGTAGGGTGCCATGCCTCCCTGGGCCACAGACTGGGTGC AGGCCANGTCCCANGCCTCACCTGGGGCTCACTGTGGGAATTTGGGAGTGGCTGCCCT ACTGACACTGC
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002036 unedited GAGGGTGCGGGTGGCCTGGTGGCAGAATAGGGCGAGGAGCAGGGGCGTAGCCACACAGTG CAAAATTGCCAGGGCTTCTGCCAGGTTACAGCAGAGTCCAGAGCCTGCTGGGCCAGACA TGTTGACAACAGCAACAGCTTGGACCTCACCAGGAAATCCAGTCTAGAACCACCCCATG AGGCCACCAGAAAATAAACAGGCCACAGGATATTCATCCAGGGGCTGGCCCCATAACC CAATGCCTTCTTCAGCCCTTTGGCTCCAACAAACCAATGGCAACAAGACAAAGATGG CAAGACAGGCTACAGTGTGTGGCCTGCAAAGCCTTCAGCTCCGTGCTGTATATCAGGG TGCAGAGTCCACCAGAAGCACCCTGGCCAGGGTACAGGCAGTGTGAGTGGCCAGCCA CTCCCCAAATTCACAGTGAGCCCGAGGTGAGGCCTGGGACCTGGCCTGCACCAGTCT TGTGGCCAGGGAGGCATGGCAACCCTAGCAGCAAAGCCTGGGCAAGGCTGAGCCATAC CAGACACAGTAGCCAGGCTACACAGGGCAGAGCTGCGAGTGTCTACCTAGCCCTGGGGCC AAGACGGGCACCACAATGCTGAAGAGGGCACTGCCACAGCCAGCTGTGCCAGGACAGGC CAGCCAGGGCAGAGCTGCCAGCGGAAGAGAGGTCTGAAAAGCATGAAGAGGACAGTGTCT CTAGCTAGGATACCCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002036
<b>Insert Size:</b>	1200 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_002036.2</a></u> , <u><a href="#">NP_002027.2</a></u>

RefSeq Size: 1317 bp

RefSeq ORF: 1011 bp

Locus ID: 2532

UniProt ID: [Q16570](#)

Cytogenetics: 1q23.2

Protein Families: Druggable Genome, GPCR, Transmembrane

**Gene Summary:** The protein encoded by this gene is a glycosylated membrane protein and a non-specific receptor for several chemokines. The encoded protein is the receptor for the human malarial parasites *Plasmodium vivax* and *Plasmodium knowlesi*. Polymorphisms in this gene are the basis of the Duffy blood group system. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus compared to isoform a.