

Product datasheet for **RG204680**

DARC (ACKR1) (NM_002036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DARC (ACKR1) (NM_002036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DARC
Synonyms:	CCBP1; CD234; DARC; DARC/ACKR1; Dfy; FY; GPD; GpFy; WBCQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204680 representing NM_002036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAACTGTCTGCACAGGGCGGAGCTCTCCCCCTCAACTGAGAAGTCAAGTCAGCTGGACTTCGAAG
ATGTATGGAATCTTCTATGGTGTGAATGATTCCTTCCAGATGGAGACTATGGTGCCAACCTGGAAGC
AGCTGCCCTGCCACTCCTGTAACCTGCTGGATGACTCTGCACTGCCCTTCTTCATCCTACCAGTGTC
CTGGGTATCCTAGCTAGCAGCACTGTCTTCTTCATGCTTTTCAGACCTCTCTCCGCTGGCAGCTCTGCC
CTGGCTGGCTGTCTGGCACAGCTGGTGTGGGCAGTGCCTCTCAGCATTGGTGGCCGTCTTGGC
CCCAGGGCTAGGTAGCACTCGCAGCTCTGCCCTGTGTAGCCTGGGCTACTGTGTCTGGTATGGCTACGCC
TTTGCCAGGCTTTGCTGCTAGGGTGCCATGCCTCCCTGGGCCACAGACTGGGTGCAGGCCAGGTCCAG
GCCTCACCTGGGGCTCACTGTGGGAATTTGGGGAGTGGCTGCCCTACTGACACTGCCTGTACCCTGGC
CAGTGGTGCTTCTGGTGGACTCTGCACCCTGATATACAGCACGGAGCTGAAGGCTTTGCAGGCCACACAC
ACTGTAGCCTGTCTTGCATCTTTGTCTTGTGCCATTGGGTTTGTGGAGCCAAGGGCTGAAGAAGG
CATTGGGTATGGGGCCAGGCCCTGGATGAACATCCTGTGGCCCTGGTTATTTTCTGGTGGCCTCATGG
GGTGGTTCTAGGACTGGATTTCTGGTGAAGTCCAAGCTGTTGCTGTTGTCAACATGTCTGGCCCAGCAG
GCTCTGGACCTGCTGTAACCTGGCAGAAGCCCTGGCAATTTGCACTGTGTGGCTACGCCCTGTCTCC
TCGCCCTATTCTGCCACCAGGCCACCCGACCCCTTGGCCCTCTCTGCCCTCCCTGAAGGATGGTTTTC
TCATCTGGACACCCTTGAAGCAAATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204680 representing NM_002036
Red=Cloning site Green=Tags(s)

MGNCLHRAELSPSTENSSQLDFEDVWNSSYGVNDSFPDGDYGANLEAAAPCHSCNLLDSSALPFFILTSV
 LGILASSTVLFMLFRPLFRWQLCPGWVLAQLAVGSALFSIVVPLAPGLGSTRSSALCSLGVCVWYGSA
 FAQALLLGCHASLGHRLGAGQVPGLTLGLTVGIWVAAALLTLPVTLASGASGGLCTLIYSTELKALQATH
 TVACLAIFVLLPLGLFGAKGLKKALGMGPGPMMNILWAWFIFWWPHGVVGLDFLVRSKLLLLSTCLAQQ
 ALDLLLLNLAELAILHCVATPLLLALFCHQATRLLPSLPLPEGWFSHLDTLGSKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002036

ORF Size: 1008 bp

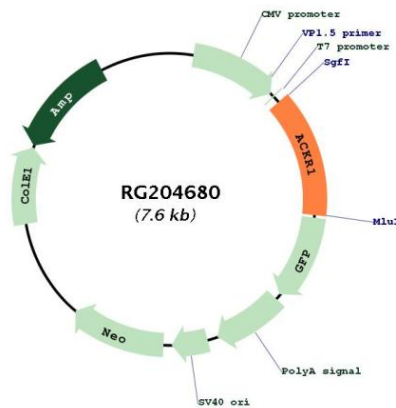
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_002036.2 , NP_002027.2
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 <i>Plasmodium vivax</i> and <i>Plasmodium knowlesi</i> . 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]

Product images:



Circular map for RG204680