

Product datasheet for **MG207659**

Dirc2 (BC037460) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dirc2 (BC037460) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dirc2
Synonyms:	RCC4, MGC47126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207659 representing BC037460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCTCGGGTTGGAGCAGCGAGGAGGAGGAGCGGCAGCCGCTGCTGGGGCCGGGGCTCGGCCTGCGC
 CGGGGGCTGCGCGCAGGGGCCGGGAGGCGACGGCCGTGCTGCCTGCGGCGGGCCGAACCCGGGAGGGT
 GTACGGGCGCCGCTGGCTGGTGTGCTGCTCTTCTCGCTCCTCGCGTTCGCCAGGGCCTGGTCTGGAAC
 ACCTGGGGCCCCATCCAGAACTCGGCGCGCCAGGCCTATGGCTTCTCCGGATGGGACATCGCGCTCTGG
 TCCTCTGGGGGCCATAGGCTTCTGCCCTGCTTCGCGTTCATGTGGCTGCTGGACAAGAGAGGTCTGCG
 GGTCACTGTGCTTCTGACGTCAATTTCTTATGGTTTTGGAACTGGTCTACGATGCATACCTGTATCGGAC
 TTAGCCCTTAAGAAAAGGCTAATCCATGGGGGACAGATACTGAACGGACTGGCAGGTCGACTGTCATGA
 ATGCGGCGCCATTCTCTACGACGTGGTTCTCTGCTGACGAGCGAGCCACTGCCACAGCAATCGCATC
 AATGCTGAGTTACCTCGGTGGAGCGTGTGCGTTTTCTCGTGGGCCCTGGTTGTTCCAGTCCCAACGGG
 ACGGCACCCCTTCTCGTGCAGAGAGTAGCAGGGCTCATATTAAGACCGAATCGAGACCGTGTGTATG
 CAGAAATTTGGAGTTGCTGCCTAATATTCTTGCCACGCTAGCTTATTTTCCGCCCGGCCCTCTCTTCC
 TCCAGTGTGCTGCTGCGAGCCAGCGGCTGAGTTACAGGCGGAGCTTTTGTAGGTTACTAAGCAATTTG
 AGGTTTTTGATGATTGCTTAGCATACGCAATACCACTTGGTGTGTTGCTGGCTGGTCTGGAGTTCTGG
 ACTTAATTTAACACCAGTGCATGTGAGTCAAGTAGACGCTGGCTGGATTGGATTCTGGTCCATAGTTGG
 AGGCTGTGTTGTTGGGATAGCTATGGCAAGGTTTGGGATTTTATCCGGGCATGCTGAACTGATCCTG
 CTCCTCTGTTTTCTGGGGTACCCTGTGTCACGTGGTTCACCTGACCTGCCTAAACAGCATCACCC
 ACTTGCTTTGACAACAGTACATTGTATGCCTCCTGCATCCTCTGGGAGTGTCTCTAACAGCAGCGCT
 CCCCATATTCTTTGAGCTTTTTGTGAAAACGGTCTACCCCGTTCAGAAGGGATCACCTGTGGAGTTGTC
 ACCTTTTTAAGTAATATGTTTATGGGAGTGCTTTTATTTTTGTACATTTTATCATACAGAGTTGTCTT
 GGTCAACTGGTGCCTTCTGGGTGCTGTGCTCAGTCTCCTTCTGATTCTGTGCTTACAGGAATCCTA
 TGACAGACTCTACCTTACGCTGGTCTCGGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence:

>MG207659 representing BC037460
 Red=Cloning site Green=Tags(s)

MGSWSSEEEERQPLLPGLGPAPGAARRGREATAVLPAAGPNPGRVYGRRLVLLLFSLLAFAQGLVWN
 TWGPIQNSARQAYGFSGWDIALLVWGPIGFLPCFAFMWLLDKRGLRVTLLTSFLMVLGTGLRCIPVSD
 LALKKRLIHGGQILNGLAGPTVMNAAPFLSTTWFSADERATATAIASMSYLLGGACAFVGLVVPAPNG
 TAPLLAAESSRAHIKDRIETVLYAEFGVVCLIFSATLAYFPPRPPLPSSVAAAASQRLSYRRSFCRLLSNL
 RFLMIALAYAIPLGVFAGWSGVLDLILTPVHVSQVDAGWIGFWSIVGGCVVGIAMARFADFIRGMLKLIL
 LLLFSGATLSSTWFTLTCLNSITHLPLTTVTLYASCILLGVFLNSSVPIFFELFVETVYPVPEGITCGVV
 TFLSNMFMGVLFFVTFYHTELSWFNWCLPGSCLLSLLLILCFRESYDRLYLDDVVVS

TRTRPLE - GFP Tag - V

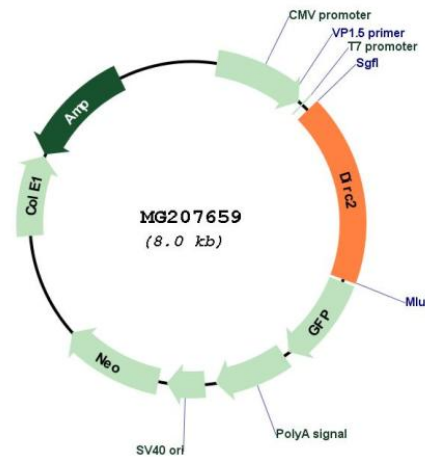
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC037460

ORF Size: 1436 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:

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: [BC037460](#), [AAH37460](#)

RefSeq Size: 2073 bp

RefSeq ORF: 1436 bp

Locus ID: 224132

Cytogenetics: 16 B3

Gene Summary: Electrogenic metabolite transporter.[UniProtKB/Swiss-Prot Function]