

## Product datasheet for **RR206654**

### **Dirc2 (NM\_001012017) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dirc2 (NM_001012017) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dirc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206654 representing NM\_001012017  
 Red=Cloning site Blue=ORF Green=Tags(s)

GCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGGCCAGATCTC  
 AAGCTTAACTAGCTAGCGGACCGAC

ATGGGCTCGGGTTGGAGCAGCGAGGAAGAGGAGCGGCAGCCGCTGCTGGGGCCGGGACTCGGGCCTGCGC  
 CGGGGGCTACGCGCAGGGGCCGGGAGGCGCGGCTGTGCTGCCCGCGGGGCCGAGCCCGGGAGGGT  
 GTATGGGCGCCGCTGGCTGGTGTGCTTCTCTTCTCGCTCCTGGCGTTCCGACAGGGCCTGGTCTGGAAT  
 ACCTGGGGCCCCATCCAGAACTCGGCGCGCCAGGCCTATAGCTTCACCGGATGGGACATCGCGCTCCTGG  
 TCCTGTGGGGGCCATAGGCTTCTGCCCTGCTTCGCGTTCATGTGGCTGCTGGACAAGAGAGGTCTGCG  
 CATCACTGTGCTCCTGACGTCTTTCTCATGGTCTTGGGCACTGGTCTAAGGTGCATACCGGTATCAGAC  
 TTAACCCTTAAAAACGATTAATCCATGGGGGCGAGATACTAACGGACTGGCAGGTCCGACTGTCATGA  
 ATGCAGCGCCGTTCTCTCCACCACCTGGTTCCTGCTGACGAGCGAGCCACTGCCACCGGATCGCTTC  
 GATGCTGAGCTATCTCGGTGGAGCATGCGGTTCTCTGTCGGGCCCTGGTGGTTCGGCGCCCAATGGG  
 ACAGCACCGCTCCTCACTGCGGAGAGTAGCAGGATCATATCAAAGACCGAATCGAGACTGTGCTATACG  
 CAGAATTTGGAGTTGCTGCCTAATATTCTCTGCCACGCTCGCTTATTTCCCGCCTCGGCCTCCGCTTCC  
 TCCCAGCGTTGCTGCTGCCAGCCAGCGGCTGAGTTACCGGAGGAGCTTTTGTAGGTTACTAAGCAATTTG  
 AGGTTTTTGATGATTGCTTAGCATACGCAATACCACTGGGTGTGTTTGTGGCTGGTCTGGAGTTCTGG  
 ACTTGATTTTAAACCAGTGCATGTTAGTCAAGTAGATGCTGGCTGGATTGGATTTTGGTCCATAGTTGG  
 AGGCTGTGTTGTTGGAATAGCTATGGCAAGGTTTGAGATTTTATCCGGGTATGCTGAACTAATCTT  
 CTCCTCTGTTTTCTGGGGCTACGCTGTATCCACGTGGTTCACCCTGACCTGTCTGAACAGCGTCACCC  
 ACTTGCCTTTGACAACAGTGACACTGTATGCCTCCTGCATCCTCCTGGGAGTCTTCTTGAACAGCAGCGT  
 TCCTATATTCTTTGAGCTTTTTGTGAAACTGTCTACCCCGTGCCAGAAGGGATTACCTGTGGAGTTGTC  
 ACTTTCTTAAGTAATATGTTTATGGGAGTGCTTTTATTTTTGTACATTTTATCATACAGAGTTGTCTT  
 GGTTCAACTGGTGCCTCCCGGGTCTGTCTGCTCAGTCTTCTTCTATTCTGTGCTTCAGGGAATCCTA  
 TGACAGGCTGTACCTTGATGTGGTCTGCTCGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

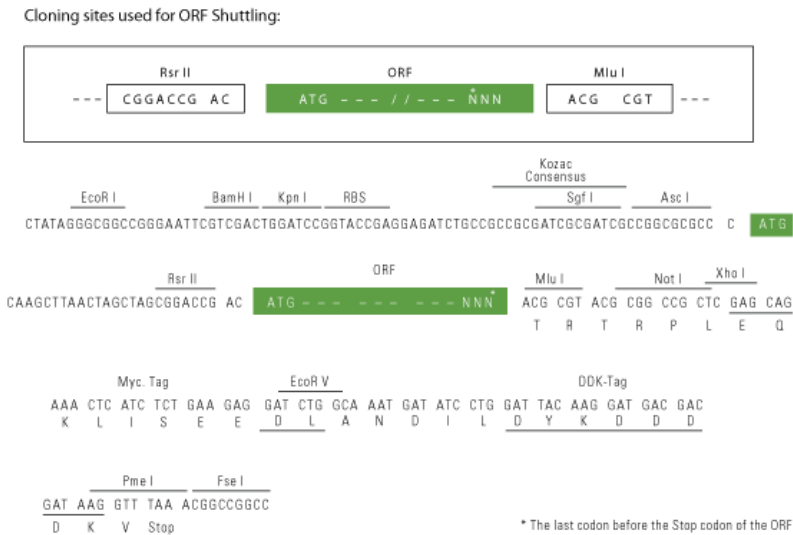
>RR206654 representing NM\_001012017  
 Red=Cloning site Green=Tags(s)

MGSWSSEEEERQPLLGPLGPAPGATRRGREAAAVLPAAGPSPGRVYGRRLVLLLFSLLAFAQGLVWN  
 TWGPIQNSARQAYSFTGWDIALLVLWGPIGFLPCFAFMWLLDKRGLRITVLLTSFLMVLGTGLRCIPVSD  
 LTLKKRLIHGGQILNGLAGPTVMNAAPFLSTTWFSADEERATATAIASMSYLGGACAFVGLVVPAPNG  
 TAPLLTAESSRDHIKDRIVLVAEFGVVCLIFSATLAYFPPRPPLPPSVAAASQRLSYRRSFCRLLSNL  
 RFLMIALAYAIPLGVFAGWSGVLDLILTPVHVSQVDAGWIGFWSIVGGCVVGIAMARFADFIRGMLKIL  
 LLLFSGATLSSTWFTLCLNSVTHLPLTTVTLYASCILLGVFLNSSVPIFFELFVETVYVPPEGITCGVY  
 TFLSNMFMGVLLFFVTFYHTELSWFWNCLPGSCLLSLLLILCFRESYDRLYLDVVVSV

TRTRPLEQKLI SEEDLAANDILDYKDDDDK V

**Restriction Sites:**

RsrII-MluI

**Cloning Scheme:**


**ACCN:** NM\_001012017

**ORF Size:** 1434 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:** [NM\\_001012017.1](#), [NP\\_001012017.1](#)

**RefSeq Size:** 2701 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 303902

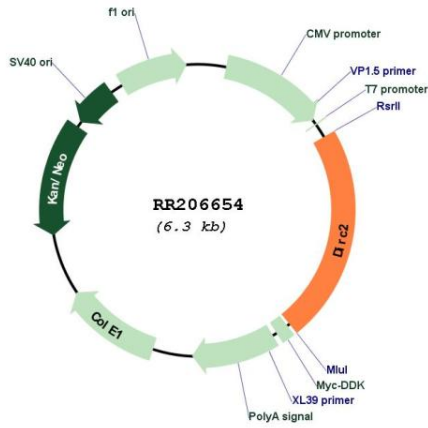
**UniProt ID:** [Q66H95](#)

**Cytogenetics:** 11q22

**MW:** 52 kDa

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

**Product images:**



Circular map for RR206654