

Product datasheet for **MR208781**

Rtl3 (NM_199468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtl3 (NM_199468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtl3
Synonyms:	D430021I08Rik; Gm375; Mar3; Mart3; ZHC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208781 representing NM_199468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGAGGACTTAGCAGCTTCTATGTTACTCTGAAATTGGAGAATGAAATCTGCAGGCTCAAGTGA
 AAAGGCTCATGGAAGAAAATGCTGCCCTCAGGCCAGATACCAGAGCTCCAGAAATCCGGAGCAGTCAA
 AGAGCATGAACCACTCCGAAAGCCCTCAGAGGCCAAGAGCCCCAGAGTCCCCAGAGTCCCAGCAGCC
 AGGGAGTCACAGAACCCTGGGAACCCCGCAACACAGAGCCCGGGGAGCCACAAAGATCAGAGAGC
 CCAGGGAACCCTCAGCCATCAGTGAAGCTCAGGGAACCCCGAGAGTCAAGGAGCCCCAGGAGCCCCAGA
 GACCAATGAGTCTGGAGAATCCTCAGCCATCACAGAGTTCAGGGGATCCCAGAGATCAAGGAGCCCCAT
 TTGCCCCAAAGTCCAAGGAGTACTGGGACCTCAGGAGCTTCCAATGGTCAAGGAATCCTGGGAGCCCC
 CAGAGGCCCTGGATTCCACAGCCTGGAAGCCACCAGCAGTCAAGGAATCCCAGGAGATCCAGAAGGCTCT
 GGAGTCCCAGCAACCCAGAGGCCCGAGCGTCCCAAGGGGTTATGATCTCCAGCAGTCTGTGAGGCG
 GAGCCACAGACAACCAGGGTACCCAGCCCTCAAGGAGCTTCAGAGTCCACAGTCCACAACCCTACAA
 ATGATGAGGAGTCTCAGACGGTTCAGAAATACCAGGAGACCTCATCACAGCTGGAGCCCTTGAGCATCC
 ACCTCCCAGGAGACTCTGGAGCCTCGGGTCCCCAGGAGCCCTGGACCCCTCAGATGCCGAGGAGTTT
 CTAGAACTCTCAGTACCTGAAGAGTCCCTAGAGGGCCTGATAGTTGCGAGAACAGGAACAGAACAGGCC
 AGTGTGAATTAGAGGCTACAACCTTGGCCCTAGAGTACCTTTGGCCTTCAGTGAAGATTTTCAGAACT
 CTCTGAGTTTTAGTTGAGTTCAGTTCAGGAGTACCTGAGAAGCAGAGGGTATCCCAGTGAAGCGGCTCTAGT
 AGCTTTGTTGGCAGCTTCTTCTCAGGTGAGGCGGGAAGGATGTTCCAGCCCTTATTAGATAGCCAACCC
 CCCTGGTGGAGCAATTTGAAAGGCTCCTCGAGCGCTCCAAGATACTTTTGACAATCCAGAAAGCTTGGGA
 AGTTGCTAACCAGGGCCTCCCTCAACTTCGCCAAGGGGAAGGCCTTGCTCCAGGTACTCAACCCGCTTC
 CATCTCATTGCGCAAGAGTTAGATTTGGGTGAAAGCACGCTCTGCATCCAATTTCAAGAAGAGCTTGCCA
 GTTCTATTCAAAATGAACTGTCTTGACAAAGTCCAGCCACCAACCTATCTGATGTGATCATTGAGTGTGT
 CACCCTAGAAGAGAAGGCAAGTGGCGGGTGGATTCCAGTTTCATCATCGTCTGAAGAGGAAAATGGGTCC
 GAGGGTCTCCACTGAAAACCAACCTGTTCAAGCTACAAGTAATCGCCCCACCTCAGCGAGGCTGAAC
 GGGCAAGACGCCGGAAGGCCACTGTGCCTCTACTGTGGCCATCCAGGTATTTGCCAGAGACTGCC
 TGCAAGCCTCATCGTGTCCAGCAGGCGGGAACATGGAGGCCCGCGG

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR208781 representing NM_199468
 Red=Cloning site Green=Tags(s)

MVEDLAASYVTLKLENEILQAQVKRLMEENAALQAQIPELQKSGAVKEHEPLRKPSEAQEPPEPPEFPAA
 RESQNPWEPPATTEPGEPTKIREPREPSAISELREPEIKEPQEPPETNESGESSAITEFRGSPEIKEPH
 LPPKSKEYWGPQELPMVKESWEPPEALDSTAWKPPAVKESQEIQKALESPATQRPQASPRGYDLPAVCEA
 EPTDNQGTALPALKELQSPQLHNPNDDEESQTVPEYQETSSQLEPLEHPPPQETLEPRVPQEPDPSDAEEF
 LELSVPEESLEGLIVARTGTEQAQCELEATTLPLEYPLAFSEDFQKLEFLVQLTSYLRSRGYPTEAALV
 SFVGSFSGEAGRMFQPLLDSPPLVEQFERLLRALQDTFDNPESLEVANQGLPQLRQEGELAPRYSTRF
 HLIQAQLDLGESTLCIQFQEELASSIQNELSCTSPATNLSVDVIECVTLEEKASGGVDSSSSSSEEENG
 EGPTTENQPVQATSNRPHLSEAERARRREGHLCLYCGHPGHFARDCPVKPHRVQAGNMEARR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9091_h07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_199468

ORF Size: 1659 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

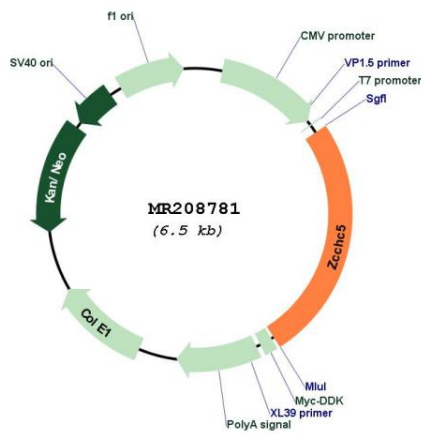
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_199468.2](#)

RefSeq Size: 3019 bp
RefSeq ORF: 1662 bp
Locus ID: 213436
UniProt ID: [Q6P1Y1](#)
Cytogenetics: X D
MW: 61.4 kDa

Gene Summary: May function as a transcriptional regulator (Probable). Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (PubMed:27446912). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208781