

Product datasheet for **RC223801**

RTL3 (NM_152694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTL3 (NM_152694) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RTL3
Synonyms:	Mar3; Mart3; SIRH9; ZCCHC5; ZHC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223801 representing NM_152694
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGAGGACTTAGCAGCCTCTATATTGTTCTGAAATTGGAGAATGAAATTCGCGAGGCTCAAGTGC
 AGTGGCTGATGGAAGAAAATGCTGCTCTCCAGGCCAGATCCCAGAGCTTCAGAAGTCCCAAGCAGCCAA
 GGAGTATGATCTACTCCGAAAGTCTCAGAGGCCAAGGAGCCCCAGAAGCTCCCAGAGCAGATGAATCCC
 CCAGCAGCCTGGGAGGCCAAAAGACCCAGAGTTCAAGGAACCCAGAAGCCACCAGAGCCACAGGATC
 TTCTACCTGGGAACCCAGCAGCCTGGGAATCCAGGAGGCCAGCAGCCCCAGAGTCCCTGGCGCC
 TCCAGCAACCCGGGAGTCCAGAAACCTCAATGGCCATGAGATCCCAACAGTCTTGGAGGGCCAGGGG
 CCTGCAACACCCAGGATGCCACAATAGCCCAAGAGCCCAAGAATTCAGAACCCAGGATCCCCAAATA
 TTGAGAAGCCCCAGGAGGCCAGAATACCAGGAACTGCAGCACAGCTAGAGTTCCTTGAGCTTCCACC
 TCCCAGGAGCCTCTGGAGCCTTCAAATGCCAGGAATTCCTAGAAGTCTCAGCAGCCAGGAGTCCCTG
 GAGGGTCTAATAGTTGTGGAGACATCAGCAGCTTCAGAGTTCCACAGGCCCTATTGGGTTAGAGGCTA
 CAGATTTCCCTGCAATACACTTAACTTCAGTGGAGATTCAGAGCTTCCAGAGCTTCCAGAGCTTCCG
 GCTGTATAGTTACATGAGAGTCAGAGGGCACCTGTATCCCACTGAAGCAGCCCTGGTGAGCTTTGTTGGC
 AATTGCTTCTCAGGTAGGCGAGGATGGTGGTCCAGCTCTTACTGGATATCCAAAGCCCTTACTGGAGC
 AATGTGAAAGTTTCATACCTGTGCTCCAGGATACTTTTGATAATCCAGAAAACATGAAAGATGCCAACCA
 GTGCATCCATCAACTCTGCCAAGGGGAGGGTCATGTAGCAACCCACTTCCACCTCATTGCTCAAGAGCTG
 AACTGGGATGAAAGCACTCTCTGGATCCAATTTCAAGAAGTCTTGCCAGTCTATAAAGATGAAGTGT
 CTCACACAAGCCAGCCACCAACCTATCTGATCTCATCACTCAGTGCATCAGCCTGGAAGAGAACCTGA
 TCCCAATCCATTAGGGAAGTTCTCTGCAGAGGGAGATGGACCCGAGAGTCCACCAGCTGAAAACCAA
 CCTATGCAGGCTGCAATCAACTGCCACACATCAGTGAAGCTGAATGGTCCGTTGGCACAAAGCCGCT
 TATGCCTCTACTGTGTTATCCTGGTCAATTTGCCAGAGATTGCCCTGTCAAGCCTCATCAGGCCCTGCA
 GGCGGAAACATCCAGGCTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223801 representing NM_152694
 Red=Cloning site Green=Tags(s)

MVEDLAASYIVLKLKLENIHQVQVQWLMEEAALQAQIPELQKSQAKEYDLLRKSSEAKEPQKLPEHMP
 PAAWEAQKTFEKEPQKPPPEQDILLPWEPPAAWELQEAPAAPELAPPATRESQKPPMAHEIPTVLEGQG
 PANTQDATHAQEPKNSPEQDPPNIEKPEAEYQETAQLEFLELPPPQEPLPSNAQEFLEL SAAQESL
 EGLIVVETSAASEFPQAPIGLEATDFPLQYTLTFSGDSQKLPFLVQLYSYMRVRGHLYPTEAALVSVFG
 NCFSGRAGWWFQLLLDIQSPLLEQCESFIPVLQDTFDNPNMKDANQCIHQLCQEGHVATHFHLLIAQEL
 NWDESTLWIQFQEGGLASSIQDEL SHTSPATNLSLITQCI SLEEKPDNPLGKSSSAEGDPESPPAENQ
 PMQAAINCPHISEAEWVRWHKGRCLCYGYPGHFARDCPVKPHQALQAGNIQACQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

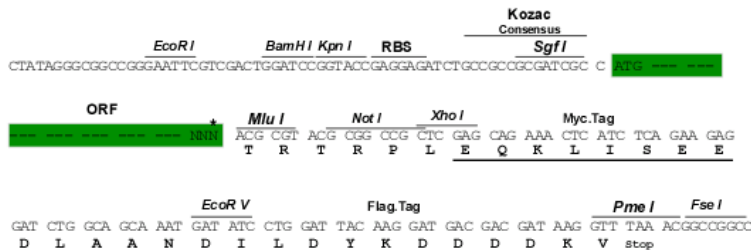
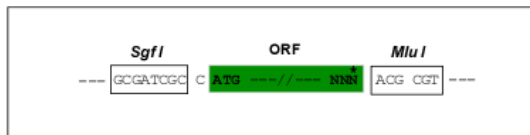
https://cdn.origene.com/chromatograms/mk8046_g05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152694

ORF Size: 1425 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_152694.3](#)
RefSeq Size: 2648 bp

RefSeq ORF: 1428 bp

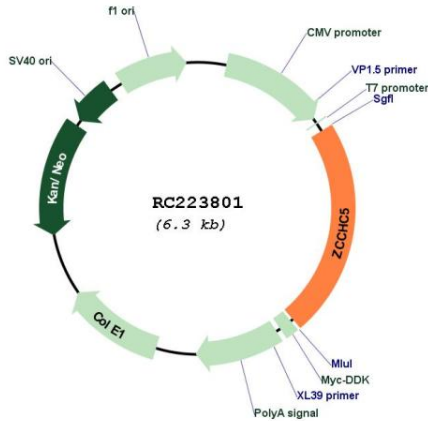
Locus ID: 203430

UniProt ID: [Q8N8U3](#)
Cytogenetics: Xq21.1

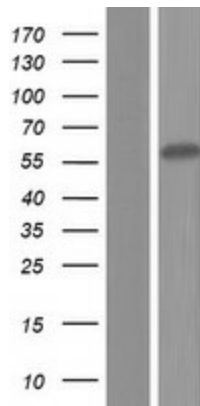
MW: 52.6 kDa

Gene Summary: This gene is a member of a family of gag-related retrotransposon genes. These genes appear to have lost the ability to retrotranspose; however, their open reading frames have remained intact, which may indicate that these genes have acquired new functions in the cell. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC223801



Western blot validation of overexpression lysate (Cat# [LY407366]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223801 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).