

Product datasheet for **RR212017**

Disc1 (NM_175596) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Disc1 (NM_175596) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Disc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR212017 representing NM_175596
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGGGCGCGGTTCCCGGGGCGCTTGGATCCACAGTCCGAGCCACTGCCAGGCAATGGGCATGGCT
CGCCGCCTGCAGTAGCCCTCAGAGGCGCGGCTGACACGGAGACCAGGCTACATGAGAAGCACAGCCAG
TCCTGGGATCGGGTTCCTGTCTCCAGCAGTGGGCATGCCACGTCCGATCTCAGCGGGGCTGACAGGCCAG
GAGTTCTACCCCTCACAGTCCAAGGCTAGACAGTGCAGCCTTGACCTCAGAAGCCACTGCCAAGACTCAT
TGGTGGCAACCCCTTTTCTCAAGGGCTCCCTTGGCCCTGCTGTGACCTCTGTGGGCCACCTGCACCCAGC
CCAGGGCTCTATGAGAGAAAGGATGGTGCACCTGCGGGTTCATTCCGGGAATGACAGAAGACAATCCGAG
AGGCTGACTGGGACAGTGGTTGTGGCAAGAATTTTTATCTTCAGACAGCTCTAAGTCTCTGGTTCTA
GCCTTGATGTAGCTTGGAGCAAGGGATCGAGGGCCCTGAAGACTGTGAGGCTCTGGTATCACCGGCGTC
GAATGGCCCCGTGACATCCCATCCCTTCTGGGTTCCAAGACACCTTTACTTCCAACCTCAGCTTCATC
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CCCTGCATCAGAGCCCCAAGAGATGGCAGCTGAAGGATCCGGCTCAGACAGGCCCCACGGGGAGCCTCG
GCATCTCTGGACCTTCAGTCTTCACGCTGCTCCGGGCTTGGTGGACTTGGCTCAGGGGACGAGGAGCAAC
AGGCAACCAGAATGTGGCATGGTCTCCTCCTCCGATGTGGTCTCTTCCCAGGATGCATCCCCGCTG
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CAGAACTTCAAGAAAAGCGGTCGAGGATGGCGATTACGACATGGCAGAGACACTGAGACAGAGATTGG
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CTTGGGTACCTGGCAACACAGACACAGCGGCCCTTGATGGAGCCCCCAAAGGGCTGGCAGCGATGAC
CCAGAAGCCCCACTTGAGGGACAGCGGAGGACCACCGCCAGGATAGCCTGCCGGGACTAGCCGTACCA
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TGTGCTGGAGGCGAAGGAACAACGGCTGAGCCAAGAGTTGGAGGATCAGGAGATGCTGCTCCGGTGGCAG
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GAGAGACTCTGACCTCTGCCAGATGGGCTCCCTCCGCGTGGAGCCACCCGAAACCTCAGGAGCCTCCG
GAAAGGACAAAGTCACTCGACCTGGCTGTTAGAGAACTCACTGAGCAGGTATGCTCAGGTGAGAAGCTA
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GCGGGAAGGGCTAGAGATGTTCTGGGAGGCTGCTGGCCCTCAGCTCCAGGAACACGAGAAGACTGGGC
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ATGCACGGTACGATGAAGCTCTTTTCACTCTCCAGGGGAGCTCCAGATGGTTAAGGAAACACTAC
AGACCATGTTCTGACGCTCCAGCCAGCAAAGGAGGCAGGAGGAGAGGCTCAGTTCCTATTCGACAGC
TGGTGCTCAGGAAGCCGAGGAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

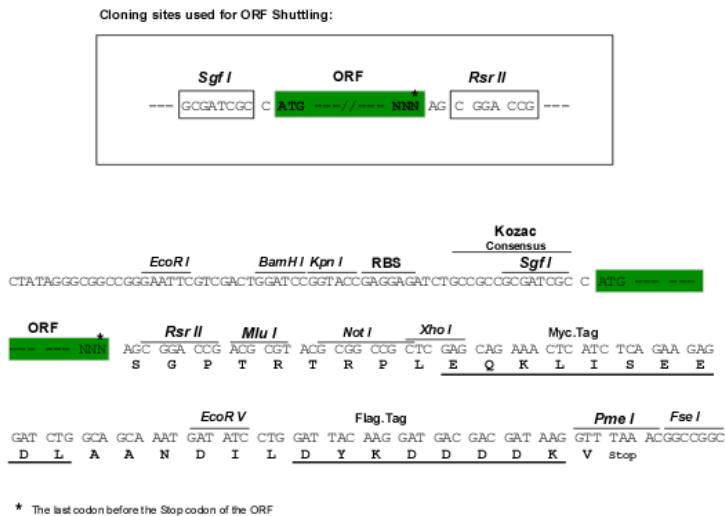
Protein Sequence: >RR212017 representing NM_175596
Red=Cloning site Green=Tags(s)

MQGAGSRGAWIHSPSHCPGNHGSPPAVAPQRRRLTRRPGYMRSTASPGIGFLSPAVGMPRPISAGLTGQ
EFYPSQSKARQCSDLRSHCQDSL VGNPFLKGS LGPAVTSVGH LHPAQGSMRERMVHSGVHSGNDRRQSE
RLTGDSGCRQEF LSSDSSKSLASSLDVAWSKGS RGLKTVRPLVSPASNGPVDIPSLPGFQDTFTSNFSFI
RLSLGAAGERGEAEGCLPSREAEPLHQSPQEMAAEGSGSDRPHGEPHRLWTFSLHAAPGLVDLAQGTRSN
RQPECGMVSSDAGFSSQDASPAGGRSDQGGWADAHGWHALLREWEPMLQDYLLSNRRQLEVTSLILKL
QKLQEKAVEDGDYDMAETLRQRLEDLEQEKGRLPWALPSQQPALRSFLGYLATQTHAALHGAPQRAGSDD
PEAPLEGQRRTTAQDSL PGLAVTRRDWLMREKEQLQKEIEALRARVSVLEAKEQRLSQELEDQEMLLRWQ
GCDQMALVAQLSPGQLQEVSKALGETLTSARWAPFRVEPPETLRSLRERTKSLDLAVRELTEQVCSGEKL
CSSLRKRLADLDTRLPALLEAKMLALSGSCFSTAKELAEI WAVSSERE GLEMFLGRLLALSSRNRRLG
SVKEDYLRCRQDLALQEAHKTRVKANTVKCTEVLEGQLSCRCPLLERVWKADLEACQLLMQSLEIQEA
GSSSHVEDEKQVHSTGEEAQTAA LAVPRTPHPEEEKSPLQESHVVFAEVGDKCEAIGMRLHLLEDQLLGA
MHGHDEALFQSLQGELQMVKETLQTMFLQLQPAKEAGGEASASYSTAGAQAED

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_175596

ORF Size: 2472 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_175596.2](#), [NP_783186.2](#)

RefSeq Size: 2475 bp

RefSeq ORF: 2475 bp

Locus ID: 307940

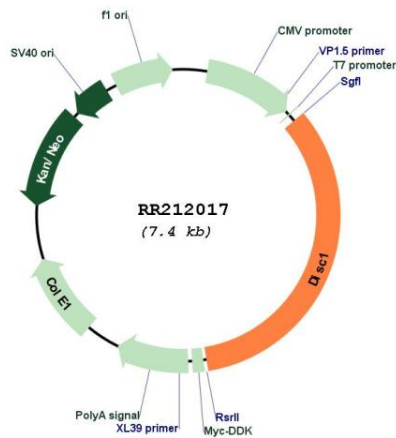
UniProt ID: [Q810H6](#)

Cytogenetics: 19q12

MW: 90.1 kDa

Gene Summary: interacts with a variety of cytoskeletal proteins; truncated mutant form is associated with Schizophrenia [RGD, Feb 2006]

Product images:



Circular map for RR212017