

Product datasheet for **RC228441**

DISC1 (NM_001164549) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164549) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DISC1
Synonyms:	C1orf136; SCZD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228441 representing NM_001164549
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGGTGAGCCACCGCGCAGGCA
 GCCGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCTCT
 TGGTCCGGAGCCCTGTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGC
 CACTTTGGGATTAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTATGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
 ATATCCTTAAGATTAACACTTACAGAACTTACAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGCT
 AGAGCTTACAACAAGATTAGAAGACTTGAACAAGAGAAAATCAGCCTGCACCTTCAACTTCTCAAG
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAAGTCCAGGCTGCCTTGGCCGTGGGGCC
 ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
 CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTTCAGGAAAAGCAGCAGCTACAGAA
 AGAAATCGAAGCTCTCCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
 GTCAGCTGCAGGAGGTCAGCAAGGCCTTGACAGCACCCCTGGCCCTCAGCCGGTCAGATTCCTTCCATGC
 AGAGCCACCGAAACCATAAGGAGTACTGC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228441 representing NM_001164549
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGVSHRAGSRDCLPPAACFRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSPVSKSAAAPT VTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
 AGWQQEF AAMDSSETLDASWEACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQA
 ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNRQMEV
 ISLRKQLKQLQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHAAQVQAALRRGA
 TQQASGDDTHTPLRMEPRLLLEPTAQDSLHVSITRRDWLLQEKQQLQKEIEALQARMFVLEAKDQQLRREI
 EEQEQLQWQGDLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPEITIRRYC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_f10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164549

ORF Size: 1641 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_001164549.2](#)

RefSeq ORF: 1644 bp

Locus ID: 27185

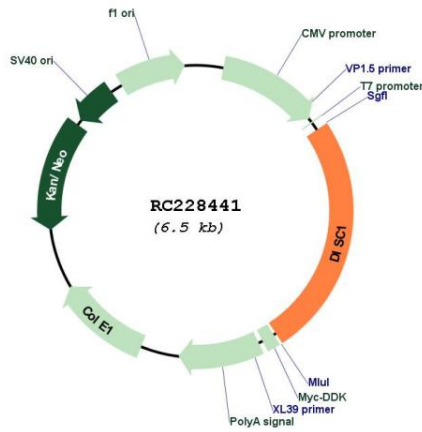
Cytogenetics: 1q42.2

MW: 58.7 kDa

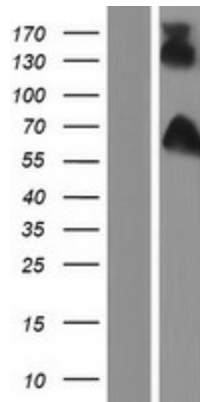
Gene Summary:

This gene encodes a protein with multiple coiled coil motifs which is located in the nucleus, cytoplasm and mitochondria. The protein is involved in neurite outgrowth and cortical development through its interaction with other proteins. This gene is disrupted in a t(1;11) (q42.1;q14.3) translocation which segregates with schizophrenia and related psychiatric disorders in a large Scottish family. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC228441



Western blot validation of overexpression lysate (Cat# [LY431469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228441 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).