

Product datasheet for **RC228341**

DISC1 (NM_001164551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164551) 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:

>RC228341 representing NM_001164551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGGTGAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGGCGGCTGGCACGAGGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCTCT
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
 ATATCCTAAGATTAACACTTCAGAACTTCAGGAAGTGCAGTTGAGAATGATGATTATGATAAAGCTG
 AGACGTTACAACAAAGATTAGAAGACCTGGAACAAGAGAAAATCAGCCTGCACTTCAACTTCTTCAAG
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAGTCCAGGCTGCCTTGCGCCGTGGGGCC
 ACTCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228341 representing NM_001164551
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSPVSKSAAAPT VTSVRGTSAHFGIQLRGGTRL PDRLSWPCGPGS
 AGWQQEFAAMDSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEPRCLSRPF SLLATRVSADLAQA
 ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGDGS SSGDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
 ISLRKLQKLQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHAAQVQAALRRGA
 TQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8058_h04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001164551

ORF Size: 1269 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_001164551.2](#)

RefSeq ORF: 1272 bp

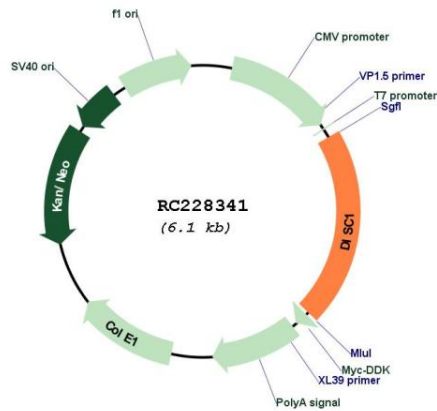
Locus ID: 27185

Cytogenetics: 1q42.2

MW: 44.5 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 RC228341