

## **Product datasheet for RC228285**

## DISC1 (NM 001164555) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** DISC1 (NM\_001164555) 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)

ORF Nucleotide >RC228285 representing NM\_001164555
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGCCAGGCGGGGGTCCTCAGGGCGCCCAGCCGCCGCCGGCGGCGCGCGTGAGCCACCGCGCAGGCA GCCGGGATTGCTTACCACCTGCAGCGTGCTTTCGGAGGCGGCGGCTGGCACGGAGGCCGGGCTACATGAG AAGCTCGACAGGGCCTGGGATCGGGTTCCTTTCCCCAGCAGTGGGCACACTGTTCCGGTTCCCAGGAGGG GTGTCTGGCGAGGAGTCCCACCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG CAGCCCTGGCTGTGGCCCTGAGGTCCCCCCAACCCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT AGCTTTATTCGGCTCTCGCTTGGCTCTGCCGGGGAACGTGGAGAAGCAGAAGGCTGCCCACCATCCAGAG AGGCTGAGTCCCATTGCCAGAGCCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCCTCACGA GGACCCGCGATGTCTCTCGGCCCTTCAGTCTCTTGGCTACACGGGTCTCTGCAGACTTGGCCCAGGCC GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTTACCAGACATGGACCCTGGCTCCTCCAGTT CTCTGGATCCCTCACTGGCTGGTGGTGGTGATGGGAGCAGCGGCTCAGGGGATGCCCACTCTTGGGA CACCCTGCTCAGGAAATGGGAGCCAGTGCTGCGGGACTGCCTGAGAAACCGGAGGCAGATGGAGCTG **AGACGTTACAACAAAGAT** 

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence:

>RC228285 representing NM\_001164555
Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSTGPGIGFLSPAVGTLFRFPGG VSGEESHHSESRARQCGLDSRGLLVRSPVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS AGWQQEFAAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQA ARNSSRPERDMHSLPDMDPGSSSSLDPSLAGCGGDGSSGSGDAHSWDTLLRKWEPVLRDCLLRNRRQMEL RRYNKD

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Chromatograms:** 

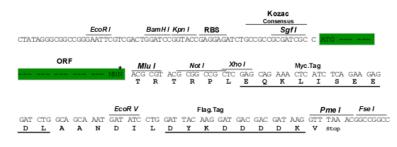
https://cdn.origene.com/chromatograms/mk8054 b06.zip

**Restriction Sites:** 

Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

ACCN:

NM\_001164555

**ORF Size:** 

1068 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 <a href="mailto:customport@origene.com">customport@origene.com</a> 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. <u>More info</u>



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: <u>NM 001164555.1</u>, <u>NP 001158027.1</u>

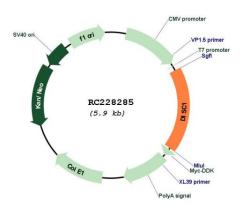
RefSeq ORF: 1071 bp
Locus ID: 27185
UniProt ID: Q9NRI5
Cytogenetics: 1q42.2
MW: 37 kDa

**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 RC228285