

## Product datasheet for **RC228454**

### **DISC1 (NM\_001164547) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164547) 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:**

>RC228454 representing NM\_001164547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGGCGGGGTCCTCAGGGCGCCCGACCGCCCGCGCGCGCGGTGAGCCACCGCGCAGGCA  
 GCCGGGATTGCTTACCACCTGCAGCGTGTCTTCGAGGCGCGCGGTGGCACGGAGCCGGCTACATGAG  
 AAGCTCGACAGGCGCTGGGATCGGGTCTTTCCCGACAGTGGGCACACTGTTCCGGTTCACAGGAGG  
 GTGTCTGGCGAGGAGTCCCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCTCT  
 TGGTCCGAGCCCTGTTTCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGCGCA  
 CTTTGGGATTCAGCTCAGAGGTGGCAGCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCTGGGAGT  
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT  
 GCAGCGATGGAGCAAGGCGTGTCCGGGCGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG  
 CAGCCCTGGCTGTGGCCTGAGGTCCCCCAACCCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT  
 AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG  
 AGGCTGAGTCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA  
 GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC  
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT  
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA  
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGAGGCAGATGGAGGTA  
 ATATCCTTAAGATTAACCTTCAGAACTTCAGGAAGTGCAGTTGAGAAATGATGATTATGATAAAGCTG  
 AGACGTTACAACAAAGATTAGAAGACCTGGAACAAGAGAAAATCAGCCTGCACTTTCACTTCCTTCAAG  
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAGTCCAGGCTGCCTTGGCGCGTGGGGCC  
 ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG  
 CTCAGGACAGCTTGACAGTGTCCATCACGAGACGAGACTGGCTTCTTCAAGAAAGCAGCAGCTACAGAA  
 AGAAATCGAAGCTCTCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAATA  
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG  
 GTCAGCTGCAGGAGGTGAGCAAGGCTTGCAGGACACCTGGCCTCAGCCGGTCAGATTCCTTCCATGC  
 AGAGCCACCGAAACCATAAGGAGAAACAAGTGTGAAGGAAAATACTATGAAGTACATGGAACACT

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228454 representing NM\_001164547  
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSTGPGIGFLSPAVGTFLFRFPGG  
 VSGEESHSESRARQCGLDNRGLLVRSVPVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS  
 AGWQQEFAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF  
 SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSAADLAQA  
 ARNSSRPERDMHSLPDMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNRQMEV  
 ISLRKLQKLQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHAAQVQAALRRGA  
 TQQASGDDTHTPLRMEPRLLLEPTAQDSLHVSITRRDWLLQEKQQLQKEIEALQARMFVLEAKDQQLRREI  
 EEQEQLQWQGC DLTPVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPEPPIRRNKCEGKYVEVHGNT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8067\\_c10.zip](https://cdn.origene.com/chromatograms/mk8067_c10.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001164547

**ORF Size:** 1677 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\\_001164547.2](#)

**RefSeq Size:** 2671 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 27185

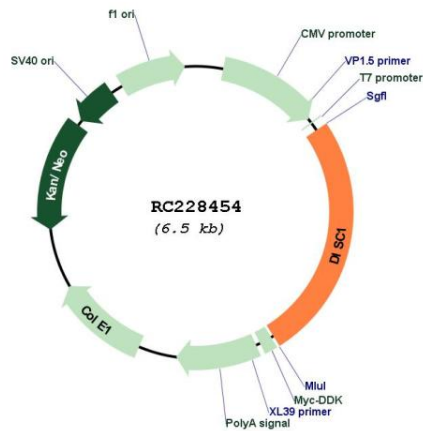
**UniProt ID:** [Q9NRI5](#)

**Cytogenetics:** 1q42.2

**MW:** 60.3 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 RC228454