

## Product datasheet for **RC228309**

### DISC1 (NM\_001164552) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DISC1 (NM\_001164552) 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 Sequence:** >RC228309 representing NM\_001164552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCCCAGCCGCCCGCGGGCGGGCGGTGAGCCACCGCGCAGGCA  
 GCCGGATTGCTTACCACCTGCAGCGTCTTTTCGGAGGCGGGTGGCACGGAGGCCGGGTACATGAG  
 AAGCTCGACAGGGCTGGGATCGGGTCTTTCCCGAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG  
 GTGTCTGGCGAGGAGTCCACCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT  
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA  
 CTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCTGGGAGT  
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT  
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG  
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT  
 AGCTTTATTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG  
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA  
 GGACCCGCGATGTCTCTCGGCCCTTCAGTCTTTGGCTACACGGGTCTCTGCAGACTTGGCCCAGGCC  
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTTACCAGACATGGACCCTGGCTCCTCCAGTT  
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA  
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA  
 ATATCCTTAAGATTAACCTTCAAGAACTTCAAGAAAGTGCAGTTGAGAAATGATGATTATGATAAAGGTT  
 TGTTGGAGGAAGTTGCTACCACTCATCTCACTTTGCATACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC228309 representing NM\_001164552  
Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG  
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS  
 AGWQQEF AAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF  
 SFIRLSLGSAGERGEAEGCPPSREAESHQSPQEMGAKAASLDGPHEDPRCLSRPFLLATRVSADLAQA  
 ARNSSRPERDMHSLPDMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNRQMEV  
 ISLRKLQKLQEDAVENDDYDKLLEEVATSHLTLHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8056\\_d05.zip](https://cdn.origene.com/chromatograms/mk8056_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164552

**ORF Size:** 1161 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\\_001164552.2](#)

**RefSeq ORF:** 1164 bp

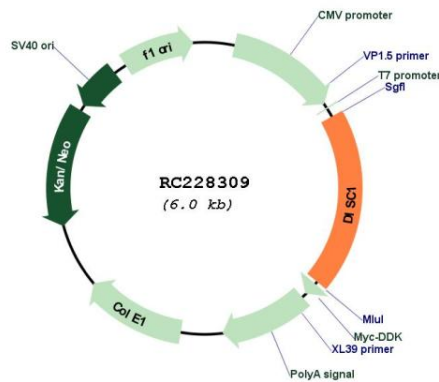
**Locus ID:** 27185

**Cytogenetics:** 1q42.2

**MW:** 40.4 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 RC228309