

## Product datasheet for **RG228441**

### DISC1 (NM\_001164549) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164549) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DISC1
Synonyms:	C1orf136; SCZD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228441 representing NM\_001164549  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGT**GAGCCACCGCGCAGGCA**  
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG  
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCC**CAGGAGGG**  
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCTCT  
 TGGTCCGGAGCCCTGTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGC**CA**  
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGGCCCTGGGAGT  
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT  
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG  
 CAGCCCTGGCTGTGGCCCTGAGGTC**CCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT**  
 AGCTTTATTCCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG  
 AGGCTGAGTCCCATTGCCAGAGCC**CCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA**  
 GGACCCCGCATGTCTCTCGGCCCTT**CAGTCTCTTGGCTACACGGGCTCTGCAGACTTGGCCAGGCC**  
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT  
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGT**GATGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA**  
 CACCCTGCTCAGGAAATGGGAGCCAGTGTCCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA  
 ATATCCTTAAGATTA**AAACTTCAGAACTTCAGGAAGATGCAGTTGAGAATGATGATTATGATAAAGTG**  
 AGAGCTTACAACAAGATTAGAAGACTGGAACAAGAGAAAATCAGCCTGCAC**TTCAACTTCTTCAAG**  
 GCAGCCAGCTCTTAGCAGTTTCTGGGTCACTGGCAGCACAAAGTCCAGGCTGCCTTGGCCGTGGGGCC  
 ACTCAGCAGGCCAGCGGAGATGACACCCACCCCACTGAGAATGGAGCCAGGCTGTTGGAACCCACTG  
 CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTT**CAGGAAAAGCAGCAGCTACAGAA**  
 AGAAATCGAAGCTCTCCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA  
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCACTGGTGGCCAGCTGTCCCTGG  
 GTCAGCTGCAGGAGGTCAGCAAGGCCTTGCAAGACCCCTGGCC**TAGCCGGT**CAGATTCCTTCCATGC  
 AGAGCCACCGAAACCATAAGGAGTACTGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228441 representing NM\_001164549  
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSS**TGPGIGFLSPAVGTLFRFP**GG  
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAPT**VT**SVRGTS**SAHFGIQLRGGTRL**PDRLSWPCGPGS  
 AGWQQEFAAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPP**TPPGSHSAFTSS**F  
 SFIRLSLGSAGERGEAEGCPPSREAESHCSPQEMGAKAASLDGPHEDPRCLSRPF**SL**LATRVSADLAQA  
 ARNSSRPERDMHSLPDMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNR**RQMEV**  
 ISLRKLQK**LQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGH**LAAQVQAALRRGA  
 TQQASGDDTHTPLRMEPR**LLEPTAQDSLHVSITRRDWLLQE**KQQLQKEIEALQARMFVLEAKDQQLRREI  
 EEQEQLQWQGC**DLT**PLVGQLSLGQLQEVSKALQDTLASAGQIPFHA**EP**PETIRRYC

**TRTRPLE** - GFP Tag - V

**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 Size:** 2279 bp

**RefSeq ORF:** 1644 bp

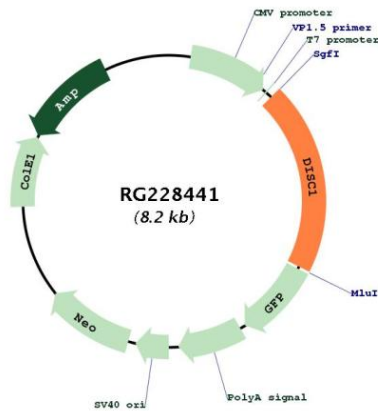
**Locus ID:** 27185

**Cytogenetics:** 1q42.2

**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 RG228441