

## Product datasheet for **RG228584**

### **DISC1 (NM\_001164538) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164538) 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)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG228584 representing NM\_001164538  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGTGTAGCCACCGCGCAGGCA  
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGGCCGGCTACATGAG  
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG  
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCCTCT  
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA  
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT  
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT  
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG  
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT  
 AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG  
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA  
 GGACCCGCGATGTCTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC  
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT  
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA  
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA  
 ATATCCTTAAGATTAACACTTCAGAACTTCAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGTC  
 AGACCTTACAACAAGATTAGAAGACTTGAACAAGAGAAAAATCAGCCTGCACCTTCAACTTCTTCAAG  
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAAGTCCAGGCTGCCTTGGCCGTGGGGCC  
 ACTCAGCAGGCCAGCGGAGATGACACCCACCCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG  
 CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTTCAGGAAAAGCAGCAGCTACAGAA  
 AGAAATCGAAGCTCTCCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA  
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG  
 GTCAGCTGCAGGAGGTCAGCAAGCCTTGACAGCACCCCTGGCCTCAGCCGGTCAAGTCCCTTCCATGC  
 AGAGCCACCGGAAACCATAAGGAGCCTCCAGGAAAGAATAAAATCCCTCAACTTGTCACTTAAAGAAATC  
 ACTACTAAGGTGTGTATGAGTGAGAAATCTGCAGCACCCCTGAGGAAGAAAGTTAACGATATTGAAACCC  
 AACTACCAGCCTTGCTTGAAGCCAAAATGCATGCCATATCAGGAAACCATTTCTGGACGGCTAAAGACCT  
 CACCGAGGAGATTAGATCATTAAACATCAGAGAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTG  
 TTGAGTTCCAGGAATGTCAAAAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGG  
 AGCACCAGGAGACTGCCTATGAAACAAGTGTGAAGGAAAACTACTATGAAGTACATGGAAACACTTAAAGAA  
 TAAACTGTGCAGCTGCAAGTGTCCACTGCTTGGGAAAGTGTGGGAAAGCTGACTTGGAAAGCTTGTGATTG  
 CTTATCCAGAGCCTACAGCTCCAGGAAGCCAGGGGAAGCCTGTCTGTAGAAGATGAGAGGCAGATGGATG  
 ACTTAGAGGGAGCTGCTCCTCTATTCCCCCAGGCTCCACTCCGAGGATAAAAGGAAGACCCCTTTGAA  
 GGTATTGGAAGAATGGAAGACTCACCTCATCCCCTCTCTGCACTGTGTGGAGGTGAACAGAAAGAGGTC  
 TGTCTTTTACATGGCCTCCAGAGGGGACCCTTATTCTAAGGGTGTCTTGGGACCATGCTCCAATGG  
 GAACAATAAATATTGGGAAGCTTCCCAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228584 representing NM\_001164538  
 Red=Cloning site Green=Tags(s)

```

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
AGWQQEFAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQA
ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGDGS SGGDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
ISLRRLKQLKQEDAVENDDYDKAETLQQRLLEDLEQEKISLHFQLPSRQPALSSFLGHLAAVQAALRRGA
TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLQKEIEALQARMFVLEAKDQQLRREI
EEQEQLQWQCDLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPETIRSLQERIKSLNLSLKEI
TTKVCMEKFCSTLRKKVNDIETQLPALLEAKMHAI SGNHFWTAKDL TEEIRSLT SEREGLEGLLSKLLV
LSSRNVKKLGSKEDYNRLRREVEHQETAYETSVKENTMKYMETLKNKLCCKCPLLKGVWEADLEACRL
LIQSLQLQEARGSLSVEDERQMDDEGAAPP IPPRLHSEDKRKTPLKVLEEWKTHLIPSLHCAGGEQKEV
CPFHMASRGDPYSKGCFTMLQMGTTINIGKASH
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001164538

ORF Size: 2409 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\\_001164538.2](#)

**RefSeq Size:** 3018 bp

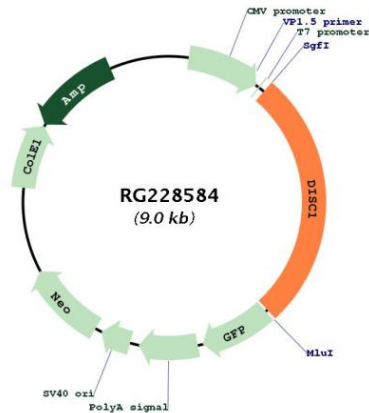
**RefSeq ORF:** 2412 bp

**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 RG228584