

Product datasheet for **RG217168**

DISC1 (NM_001012959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001012959) 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:

>RG217168 representing NM_001012959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGGTGAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGGCGGCTGGCACGGAGGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTCCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCGGCCCTTCACTCTTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
 ATATCCTAAGATTAACAACTTACAGAACTTACAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGCTG
 AGACGTTACAACAAAGATTAGAAGACTTGAACAAGAGAAAATCAGCCTGCACCTTCAACTTCTTCAAG
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAGTCCAGGCTGCCTTGCAGCGTGGGGCC
 ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
 CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTACGGAAAAGCAGCAGCTACAGAA
 AGAAATTGAAGCTCTCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
 GTCAGCTGCAGGAGGTCAGCAAGGCTTGCAGGACACCCTGGCCTCAGCCGGTCAAGTCCCTTCCATGC
 AGAGCCACCGAAACCATAAGGAGCCTCCAGGAAAGAATAAAATCCCTCAACTTGTCACTTAAAGAAATC
 ACTACTAAGGTGTGTATGAGTGAGAAATCTGCAGCACCTGAGGAAGAAAGTTAACGATATTGAAACCC
 AACTACCAGCCTTGCTTGAAGCCAAAATGCATGCCATATCAGGAAACCATTTCTGGACGGCTAAAGACCT
 CACCGAGGAGATTAGATCATTAAACATCAGAGAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTG
 TTGAGTTCCAGGAATGTCAAAAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGG
 AGCACCAGGAGACTGCCTATGGATATAAGTACTGTGATGCAGAGTCTGGACACAGAGAAGTCAAGCAACT
 TGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217168 representing NM_001012959
Red=Cloning site Green=Tags(s)

```

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPT VTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
AGWQQEFAAMDSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFLLATRVSADLAQA
ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGDGGSSGSDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
ISLRLKQLKQLEDVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGA
TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLKEIEALQARMFVLEAKDQQLRREI
EEEQQLQWQGC DL TPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPE TIRSLQERIKSLNLSLKEI
TTKVCMEKFCSTLRKKVNDIETQLPALLEAKMHAISGNHFWTAKDL TEEIRSLT SEREGLEGLLSKLLV
LSSRNVKKLSVKEDYNRLRREVEHQETAYGYKYCDAESWTQRSQQLA
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012959

ORF Size: 2034 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_001012959.1](#), [NP_001012977.1](#)

RefSeq Size: 2230 bp

RefSeq ORF: 2037 bp

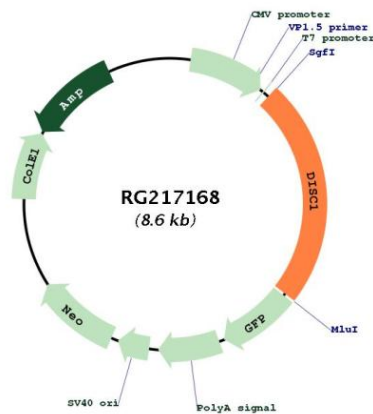
Locus ID: 27185

UniProt ID: [Q9NRI5](#)

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 RG217168