

Product datasheet for **RG228445**

DISC1 (NM_001164548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164548) 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:

>RG228445 representing NM_001164548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGT**GAGCCACCGCGCAGGCA**
GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG
AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
TGGTCCGGAGCCCTGTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGC
CACTTTGGGATTAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGGCCCTGGGAGT
GCTGGGTGGCAGCAAGAGTTGCAGCCATGGATAGTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT
GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
CAGCCCTGGCTGTGGCCCTGAGGTCACCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTATGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
CACCTGTCTCAGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
ATATCCTAAGATTAACACTTACAGAACTTACAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGTG
AGACGTTACAACAAGATTAGAAGACTTGAACAAGAGAAAATCAGCCTGCACTTCAACTCCTTCAAG
GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAAGTCCAGGCTGCCTTGGCCGTGGGGCC
ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTCAAGAAAAGCAGCAGCTACAGAA
AGAAATCGAAGCTCTCCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA
GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
GTCAGCTGCAGGAGGTCAGCAAGGCCTTGACAGCACCCCTGGCCCTCAGCCGGTCAGATTCCTTCCATGC
AGAGCCACCGAAACCATAAGGAGGAAACCATTCTGGACGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228445 representing NM_001164548
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRRARQCGLDSRGLLVRSVSKSAAAPTIVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
 AGWQQEFAAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAESHQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQA
 ARNSSRPERDMHSLPDMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNRQMEV
 ISLRKLQKLEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHAAQVQAALRRGA
 TQQASGDDTHTPLRMEPRLLLEPTAQDSLHVSITRRDWLLQEKQQLQKEIEALQARMFVLEAKDQQLRREI
 EEQEQLQWQCDLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPEPPIRRKPFLLDG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164548

ORF Size: 1653 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001164548.1, NP_001158020.1

RefSeq Size: 2603 bp

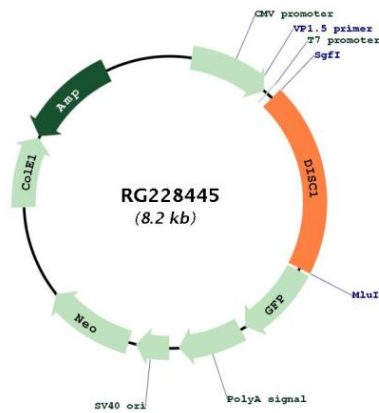
RefSeq ORF: 1656 bp

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 RG228445