

Product datasheet for **RG228532**

DISC1 (NM_001164542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164542) 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:

>RG228532 representing NM_001164542
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGTGTAGCCACCGCGCAGGCA
GCCGGGATTGCTTACCACCTGCAGCGTGTCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG
AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGC
CTTTGGGATTGAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT
GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT
GCAGCGATGGAGCAAGGCGTGTCCGGCCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
CAGCCCTGGCTGTGGCCCTGAGGTCACCCCAACCCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
CACCTGTCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
ATATCCTAAGATTAACAACTTCAAGAACTTCAAGAAATGCAAGTGCAGTTGAGAATGATGATTATGATAAAGCTG
AGACGTTACAACAAAGATTAGAAGACCTGGAACAAGAGAAAATCAGCCTGCACCTTCAACTTCTTCAAG
GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAGTCCAGGCTGCCTTGCAGCGTGGGGCC
ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTTCAGGAAAAGCAGCAGCTACAGAA
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GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
GTCAGCTGCAGGAGGTGAGCAAGGCTTGCAGGACACCCTGGCCTCAGCCGGTCAAGTCCCTTCCATGC
AGAGCCACCGAAACCATAAGGAGCCTCCAGGAAAGAATAAAATCCCTCAACTTGTCACTTAAAGAAATC
ACTACTAAGGTGTGTATGAGTGAGAAATCTGCAGCACCTGAGGAAGAAAGTTAACGATATTGAAACCC
AACTACCAGCCTTGCTTGAAGCCAAAATGCATGCCATATCAGGAAACCATTTCTGGACGGCTAAAGACCT
CACCGAGGAGATTAGATCATTAAACATCAGAGAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTG
TTGAGTTCCAGGAATGTCAAAAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGG
AGCACCAGGAGACTGCCTATGAAACAAGTGTGAAGGAAAATACTATGAAGTACATGGAAACACTTAAAGAA
TAAACTGTGCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228532 representing NM_001164542
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
 AGWQQEF AAMDSSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAESHCSQPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSAADLAQA
 ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGDGS SSGDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
 ISLRKLKQLQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGA
 TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLQKEIEALQARMFVLEAKDQQLRREI
 EEQEQLQWQGC DLTP LVQLSLGQLQEVSKALQDTLASAGQIPFHA EPPETIRSLQERIKSLNLSLKEI
 TTKVCMSEKFCSTLRKKVNDIETQLPALLEAKMHAI SGNHFWTAKDL TEEIRSLT SEREGLEGLLSKLLV
 LSSRNVKKLSVKEDYNRLRREVEHQETAYETSVKENTMKYMETLKNKLCR

TRTRPLE - GFP Tag - V

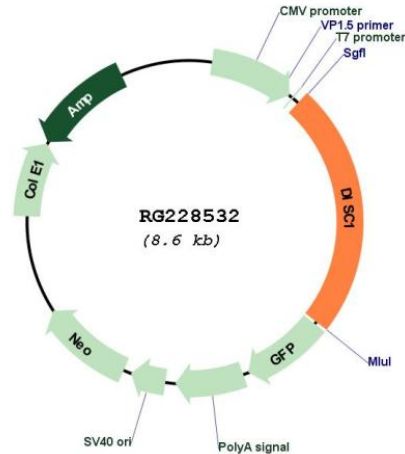
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001164542

ORF Size: 2043 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_001164542.2](#)

RefSeq Size: 2710 bp

RefSeq ORF: 2046 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]