

Product datasheet for **RG228541**

DISC1 (NM_001164541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164541) 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:

>RG228541 representing NM_001164541
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGGTGAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTCCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
 ATATCCTAAGATTAACAACTTACAGAACTTACAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGCTG
 AGACGTTACAACAAAGATTAGAAGACTTGAACAAGAGAAAATCAGCCTGCACCTTCAACTTCTCAAG
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAAGTCCAGGCTGCCTTGCAGCGTGGGGCC
 ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
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 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
 GTCAGCTGCAGGAGGTGAGCAAGGCTTGCAGGACACCCTGGCCTCAGCCGGTCAAGTCCCTTCCATGC
 AGAGCCACCGAAACCATAAGGAGCCTCCAGGAAAGAATAAAATCCCTCAACTTGTCACTTAAAGAAATC
 ACTACTAAGGTGTGTATGAGTGAGAAATCTGCAGCACCTGAGGAAGAAAGTTAACGATATTGAAACCC
 AACTACCAGCCTTGCTTGAAGCCAAAATGCATGCCATATCAGGAAACCATTTCTGGACGGCTAAAGACCT
 CACCGAGGAGATTAGATCATTAAACATCAGAGAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTG
 TTGAGTTCCAGGAATGTCAAAAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGG
 AGCACCAGGAGACTGCCTATGCTGCAAGTGTCCACTGCTTGGGAAAGTGTGGGAAGCTGACTTGGAAAGCT
 TGTCGATTGCTTATCCAGAGCCTACAGCTCCAGGAAGCCAGGGGAAGCCTGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228541 representing NM_001164541
Red=Cloning site Green=Tags(s)

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MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGS
AGWQQEFAAMDSSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFLLATRVSADLAQA
ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGDGS SGGDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
ISLRKLKQLKQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGA
TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLKEIEALQARMFVLEAKDQQLRREI
EEQEQLQWQGC DL TPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPE TIRSLQERIKSLNLSLKEI
TTKVCMEKFCSTLRKKVNDIETQLPALLEAKMHAISGNHFWTAKDL TEEIRSLT SEREGLEGLLSKLLV
LSSRNVKKLSVKEDYNRLRREVEHQETAYAASVHCLGKCGKLTWKLVDCLSRAYS SRKPGEACL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164541

ORF Size: 2085 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_001164541.2](#)

RefSeq Size: 2957 bp

RefSeq ORF: 2088 bp

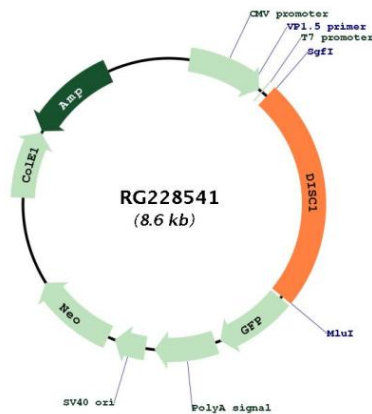
Locus ID: 27185

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 RG228541