

Product datasheet for **RG228608**

DISC1 (NM_001164537) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164537) 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:

>RG228608 representing NM_001164537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGTGTAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGTCTTCGGAGGCGCGGCTGGCACGGAGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCTCT
 TGGTCCGGAGCCCTGTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
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 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
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 GGAGCCGAGGCTGTTGGAACCCACTGCTCAGGACAGCTTGACAGTGTCCATCACGAGACGAGACTGGCTT
 CTTCAGGAAAAGCAGCAGCTACAGAAAGAAATCGAAGCTCTCAAGCAAGGATGTTTGTGCTGGAAGCCA
 AAGATCAACAGCTGAGAAGGAAATAGAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGAC
 CCCACTGGTGGCCAGCTGTCCCTGGGTGAGTGCAGGAGGTGAGCAAGGCTTGCAGGACACCCTGGCC
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 GAAGAAAGTTAACGATATTGAAACCCAACTACCAGCCTTCTTGAAGCCAAAATGCATGCCATATCAGGA
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 AGGCAAGAAGCTATTGTACTTGGAAAGTCAACTTACACAGCAATCCACAGTCATGATGAAGATCTCATT
 CAGTCTCTCAGGAGGGAGCTCCAGATGGTGAAGGAAACTTGCAGGCCATGATCTGCAGCTCCAGCCAG
 CAAAGGAGGCGGGAGAAAGAGAAGCTGCAGCTTCTGCATGACAGCTGGTGTCCACGAAGCACAAGCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228608 representing NM_001164537
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPT VTSVRGTS AHFGIQLRGGTRLPDRLSWPCGPGS
 AGWQQEF AAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAE SHCQSPQEMGAKAASLDGPHEDPRCLSRPFLLATRVSADLAQA
 ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGGDGSSGSDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
 ISLRLKLQKLQEDAVENDDYDKVETGFHYVQAGLELLTSSNPPASASQSAGITAETLQQRLEDLEQEKI
 SLHFQLPSRQPALSSFLGHLLAAQVQAALRRGATQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWL
 LQEKQQLQKEIEALQARMFVLEAKDQQLRREIEEQEQLQWQGC DLTPVGQLSLGQLQEVSKALQDTLA
 SAGQIPFHAEPPE TIRSLQERIKSLNLSLKEITTKVCMSEKFCSTLRKKVNDIETQLPALLEAKMHAISG
 NHFWTAKDLTEEIRSLT SEREGLEGLLSKLLVLSRNKVLGSKVEDYNRLRREVEHQETAYETSVKENT
 MKYMETLKNKLCCKCPLL GKVWEADLEACRLLIQSLQLQEARGSLSVEDERQMDDEGAAPP IPPRLHS
 EDKRKTP LKVL EEWKTHLIPSLHCAGGEQKEESYILSAELGEKCEDIGKLLYLEDQLHTAIHSHDEDLI
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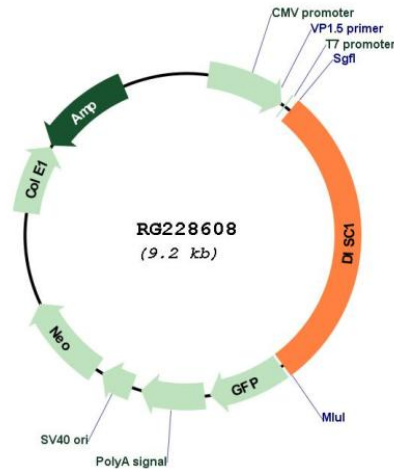
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001164537

ORF Size: 2658 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_001164537.2](#)

RefSeq Size: 7165 bp

RefSeq ORF: 2661 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]