

Product datasheet for **RG228285**

DISC1 (NM_001164555) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DISC1 (NM_001164555) 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)
ORF Nucleotide Sequence: >RG228285 representing NM_001164555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCCCAGCCGCCCGCGGGCGGGCGGTGAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGTCTTCGGAGGCGGGCTGGCACGGAGGCCGGGTACATGAG
 AAGCTCGACAGGGCTGGGATCGGGTTCCTTTCCCAGCAGTGGGCACACTGTTCCGGTCCCAGGAGGG
 GTGTCTGGCGAGGAGTCCCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCTGGACGCCAGCTGGGAGGCAGCCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCGGCCCTTCAGTCTCTTGGCTACACGGGTCTCTGCAGACTTGGCCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGTGAGAAACCGGAGGCAGATGGAGCTG
 AGACGTTACAACAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228285 representing NM_001164555
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPT VTSVRGTSAHFGIQLRGGTRL PDRLSWPCGPGS
 AGWQQEF AAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAE SHCQSPQEMGAKAASLDGPHEDPRCLSRPF SLLATRV SADLAQA
 ARNSSRPERDMHSLPMDPGSSSLDPSLAGCGGDGSSGSGDAHSWDTLLRKWEPVLRDCLLRNRQME
 RRYNKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164555

ORF Size: 1068 bp

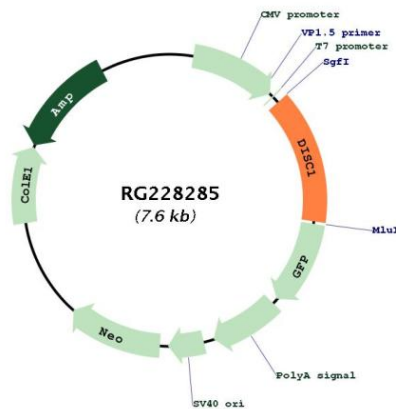
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_001164555.1](#), [NP_001158027.1](#)
- RefSeq Size:** 1794 bp
- RefSeq ORF:** 1071 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 RG228285