

## Product datasheet for **SC301731**

### DISC1 (NM\_001012959) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001012959) Human Untagged Clone
Tag:	Tag Free
Symbol:	DISC1
Synonyms:	C1orf136; SCZD9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001012959 edited
AGCGGGGCGCATGCCAGGCGGGGTCTCAGGGCGCCCCAGCCGCCCGCGGGCGGGCGG
CGTGAGCCACCGCGCAGGCAGCCGGGATTGCTTACCACCTGCAGCGTGCTTTCCGAGGCG
GCGGCTGGCACGGAGGCCGGGTACATGAGAAGCTCGACAGGGCCTGGGATCGGGTTCTT
TTCCCCAGCAGTGGGCACACTGTTCCGGTCCCAGGAGGGGTGTCTGGCGAGGAGTCCCA
CCACTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCTTGGTCCGGAG
CCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGG
CCCTGGGAGTGTGGGTGGCAGCAAGAGTTTGACCCATGGATAGTTCTGAGACCCTGGA
CGCCAGCTGGGAGGCAGCCTGCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCT
GCCATCAGCAGAGTTGAGTAGCAACAGCTGCAGCCCTGGCTGTGGCCCTGAGGTCCCCC
AACCCCTCTGGCTCTCACAGTGCCTTTACCTCAAGCTTTAGCTTTATTCGGCTCTCGCT
TGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAGAGGCTGAGTC
CCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGACGGGCTCACGA
GGACCCGGATGTCTCTCGGCCCTTCACTCTTTGGCTACACGGGTCTCTGCAGACTT
GGCCCAGGCCGCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACAT
GGACCCTGGCTCCTCCAGTTCTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGATGGGAG
CAGCGGCTCAGGGGATGCCACTCTTGGGACACCCTGCTCAGGAAATGGGAGCCAGTGCT
GCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTAATATCCTTAAGATTAAGAACT
TCAGAAATTCAGGAAGATGCAGTTGAGAATGATGATTATGATAAAGCTGAGACGTTACA
ACAAAGATTAGAAGACCTGGAACAAGAGAAAATCAGCCTGCACCTTCACTTCTTCAAG
GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAGTCCAGGCTGCCTTGGC
CCGTGGGGCCACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCC
GAGGCTGTTGGAACCCACTGCTCAGGACAGCTTGACAGTGTCCATCACGAGACGAGACTG
GCTTCTCAGGAAAAGCAGCAGCTACAGAAAGAAATTGAAGCTCTCAAGCAAGGATGTT
TGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATAGAGGAGCAAGAGCAGCAACT
CCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGGCCAGCTGTCCCTGGGTGAGCTGCA
GGAGGTCAGCAAGGCCTTGCAGGACACCCTGGCCTCAGCCGGTCAGATTCCCTTCCATGC
AGAGCCACCGAAACCATAAAGGAGCCTCCAGGAAAGAATAAAATCCCTCACTTGTCACT
TAAAGAAATCACTACTAAGGTGTGTATGAGTGAGAAATCTGCAGCACCCCTGAGGAAGAA
AGTAAACGATATTGAAACCAACTACCAGCCTTGCTTGAAGCCAAATGCATGCCATATC
AGGAAACCATTTCTGGACGGCTAAAGACCTCACCGAGGAGATTAGATCATTAAACATCAGA
GAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTGTGAGTTCCAGGAATGTCAA
AAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGGAGCACCAGGA
GACTGCCTATGGATATAAGTACTGTGATGCAGAGTCTGGACACAGAGAAGTCAGCAACT
TGCCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001012959 unedited</p> <pre>GGTTAAATATTTGTATACGACTCACTATAGGCGGCCGACGATTCCGCCCTTAGCGGGGCGC ATGCCAGGCGGGGGTCTCAGGGCGCCCCAGCCGCCGCCGGCGGGCGGGCGGTGAGCCAC CGCGCAGGCAGCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGGGCGGTGGCA CGGAGGCCGGGCTACATGAGAAGCTCGACAGGGCCTGGGATCGGGTTCCTTTCCCCAGCA GTGGGCACACTGTTCCGGTTCAGGAGGGGTGTCTGGCGAGGAGTCCCACCACTCGGAG TCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTTTGGTCCGGAGCCCTGTTTCC AAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCACTTTGGGATT CAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGG GAGGCAGCTGCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCA GAGTTGAGTAGCAACAGCTGCAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCCTCT GGCTCTCACAGTGCCTTACCTCAAGCTTAGCTTTATTCGGCTCTCGCTGGCTCTGCC GGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAGAGGCTGAGTCCCATTGCCAG AGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGACGGGCCCTCACGAGGACCCGCGA TGTCTCTCTCGGCCCNACAGTCTTTGGCTACACNGTCTCTGCAGACTTGGCCAAGCC GCAAGGAACAAC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001012959 unedited</p> <pre>ACACCATTGGNGATGGCACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTACAGGNATG CCACCCGGGATCTGTTCCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGATCAGG CAAGTTGCTGACTTCTCTGTGTCCAGGACTCTGCATCACAGTACTTATATCCATAGGCAG TCTCTGGTGCTCCACTTCTTCTCAGTCTGTTGTAATCTTCTTAAACTTCCAGCT TTTTGACATTCCCTGGAACCAACACCAAGCTTGTGAGGAGTCCCTCCAGCCCTTCTC TCTCTGATGTTAATGATCTAATCTCCTCGGTGAGGTCTTAGCCGTCCAGAAATGGTTTC CTGATATGGCATGCAATTTGGCTTCAAGCAAGGCTGGTAGTTGGGTTTCAATATCGTTAA CTTTCTTCCCTCAGGGTGTGCAGAAATTTCTCACTACACACCTTAGTAGTGATTTCTT TAAGTGACAAGTTGAGGGATTTTATTCTTCTGGAGGCTCCTTATGGTTTCCGGTGGCT CTGCATGGAAGGGAATCTGACCGGCTGAGGCCAGGGTGTCTGCAAGGCCTTGTGACCT CCTGCACTGACCCAGGACAGCTGGCCACCAGTGGGGTCAAGTCCGAGCCCTGCCACT GGAGTTGCTGCTTGTCTCTTATTTCCCTTCTCAGTGTGATCTTTGGCTTCCAGCA CAAACATCCTTGCTTGGAGAGCTTCAAATTTCTTCTGTAGCTGTGCTTTTCTGAAGAA ACCAGTCTCGTCTCGTATGGACACGTGCAAGCTGTCTGAGCAGTGGGTCCAACAGCCT CGGCTCCATTCTCAGTGGGTGTGGGGTGTGATCTCCGCTGGN</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001012959
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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\\_001012959.1](#), [NP\\_001012977.1](#)

**RefSeq Size:** 2230 bp

**RefSeq ORF:** 2037 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]  
Transcript Variant: This variant (S) lacks several 3' exons but has an alternate 3' exon, as compared to variant L. The resulting isoform (S, also known as the 'Short' isoform) is shorter and has a distinct C-terminus, as compared to isoform L.