

Product datasheet for **RC228584**

DISC1 (NM_001164538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DISC1 (NM_001164538) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DISC1
Synonyms:	C1orf136; SCZD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC228584 representing NM_001164538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGGCGGGGTCTCAGGGCGCCACGCCCGCCGGCGGGCGGCGGTGAGCCACCGCGCAGGCA
 GCCGGGATTGCTTACCACCTGCAGCGTGCCTTCGGAGGCGCGGCTGGCACGGAGGCCGGCTACATGAG
 AAGCTCGACAGGGCCTGGGATCGGGTCTTTCCCCAGCAGTGGGCACACTGTTCCGGTCCAGGAGGG
 GTGTCTGGCGAGGAGTCCACCCTCGGAGTCCAGGGCCAGACAGTGTGGCCTTGACTCGAGAGGCCTCT
 TGGTCCGGAGCCCTGTTTCCAAGAGTGCAGCAGCCCTACTGTGACCTCTGTGAGAGGAACCTCGGCGCA
 CTTTGGGATTCAGCTCAGAGGTGGCACCAGATTGCCTGACAGGCTTAGCTGGCCGTGTGGCCCTGGGAGT
 GCTGGGTGGCAGCAAGAGTTTGCAGCCATGGATAGTTCTGAGACCCTGGACGCCAGCTGGGAGGCAGCT
 GCAGCGATGGAGCAAGGCGTGTCCGGGCAGCAGGCTCTCTGCCATCAGCAGAGTTGAGTAGCAACAGCTG
 CAGCCCTGGCTGTGGCCCTGAGGTCCCCCAACCCTCCTGGCTCTCACAGTGCCTTTACCTCAAGCTTT
 AGCTTTATTTCGGCTCTCGCTTGGCTCTGCCGGGAACGTGGAGAAGCAGAAGGCTGCCACCATCCAGAG
 AGGCTGAGTCCCATTGCCAGAGCCCCAGGAGATGGGAGCCAAAGCTGCCAGCTTGGACGGGCTCACGA
 GGACCCGCGATGTCTCTCTCGGCCCTTCACTCTTGGCTACACGGGTCTCTGCAGACTTGGCCAGGCC
 GCAAGGAACAGCTCCAGGCCAGAGCGTGACATGCATTCTTACCAGACATGGACCCTGGCTCCTCCAGTT
 CTCTGGATCCCTCACTGGCTGGCTGTGGTGGTGTGGGAGCAGCGGCTCAGGGGATGCCACTCTTGGGA
 CACCCTGCTCAGGAAATGGGAGCCAGTGTGCGGGACTGCCTGCTGAGAAACCGGAGGCAGATGGAGGTA
 ATATCCTTAAGATTAACACTTCAGAACTTCAGAAAGTGCAGTTGAGAATGATGATTATGATAAAGTC
 AGACGTTACAACAAGATTAGAAGACTTGAACAAGAGAAAAATCAGCCTGCACCTTCAACTTCTTCAAG
 GCAGCCAGCTCTTAGCAGTTTCTGGGTACCTGGCAGCACAAAGTCCAGGCTGCCTTGGCCGTGGGGCC
 ACTCAGCAGGCCAGCGGAGATGACACCCACACCCCACTGAGAATGGAGCCGAGGCTGTTGGAACCCACTG
 CTCAGGACAGCTTGCACGTGTCCATCACGAGACGAGACTGGCTTCTTTCAGGAAAAGCAGCAGCTACAGAA
 AGAAATCGAAGCTCTCCAAGCAAGGATGTTTGTGCTGGAAGCCAAAGATCAACAGCTGAGAAGGGAAATA
 GAGGAGCAAGAGCAGCAACTCCAGTGGCAGGGCTGCGACCTGACCCCACTGGTGGCCAGCTGTCCCTGG
 GTCAGCTGCAGGAGGTCAGCAAGCCTTGACAGCACCCCTGGCCTCAGCCGGTCAAGTCCCTTCCATGC
 AGAGCCACCGGAAACCATAAGGAGCCTCCAGGAAAGAATAAAATCCCTCAACTTGTCACTTAAAGAAATC
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 AACTACCAGCCTTGCTTGAAGCCAAAATGCATGCCATATCAGGAAACCATTTCTGGACGGCTAAAGACCT
 CACCGAGGAGATTAGATCATTAAACATCAGAGAGAGAAGGGCTGGAGGGACTCCTCAGCAAGCTGTTGGTG
 TTGAGTTCCAGGAATGTCAAAAAGCTGGGAAGTGTAAAGAAGATTACAACAGACTGAGAAGAGAAGTGG
 AGCACCAGGAGACTGCCTATGAAACAAGTGTGAAGGAAAACTACTATGAAGTACATGGAAACACTTAAAGAA
 TAAACTGTGCAGCTGCAAGTGTCCACTGCTTGGGAAAGTGTGGGAAAGCTGACTTGGAAAGCTTGTGATTG
 CTTATCCAGAGCCTACAGCTCCAGGAAGCCAGGGGAAGCCTGTCTGTAGAAGATGAGAGGCAGATGGATG
 ACTTAGAGGGAGCTGCTCCTCTATTCCCCCAGGCTCCACTCCGAGGATAAAAGGAAGACCCCTTTGAA
 GGTATTGGAAGAATGGAAGACTCACCTCATCCCCTCTCTGCACTGTGTGGAGGTGAACAGAAAGAGGTC
 TGTCTTTTACATGGCCTCCAGAGGGGACCCTTATTCTAAGGGGTGCTTTGGGACCATGCTCCAATGG
 GAACAATAAATATTGGGAAGCTTCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228584 representing NM_001164538
 Red=Cloning site Green=Tags(s)

MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRLARRPGYMRSSSTGPGIGFLSPAVGTLFRFPGG
 VSGEESHSESRARQCGLDSRGLLVRSVSKSAAAPTVT SVRGTSAHFGIQLRGGTRL PDRLSWPCGPGS
 AGWQQEF AAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEV PPTPPGSHSAFTSSF
 SFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQA
 ARNSSRPERDMHSLPDMDPGSSSLDPSLAGCGDGS SGGDAHSWDTLLRKWEPVLRDCLLRNRRQMEV
 ISLRRLKQLKQEDAVENDDYDKAETLQQRL EDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGA
 TQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKKQLQKEIEALQARMFVLEAKDQQLRREI
 EEQEQLQWQCDLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEP PETIRSLQERIKSLNLSLKEI
 TTKVCMSEKFCSTLRKKVNDIETQLPALLEAKMHAI SGNHFWTAKDL TEEIRSLT SEREGLEGLLSKLLV
 LSSRNVKKLGSKEDYNRLRREVEHQETAYETSVKENTMKYMETLKNKLCCKCPLL GKVWEADLEACRL
 LIQSLQLQEARGSLSVEDERQMDDEGAAPP IPPRLHSEDKRKTPLKVLEEWKTHLIPSLHCAGGEQKEV
 CPFHMASRGDPYSKGCFTMLQMG TINIGKASH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001164538

ORF Size: 2409 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_001164538.2](#)

RefSeq ORF: 2412 bp

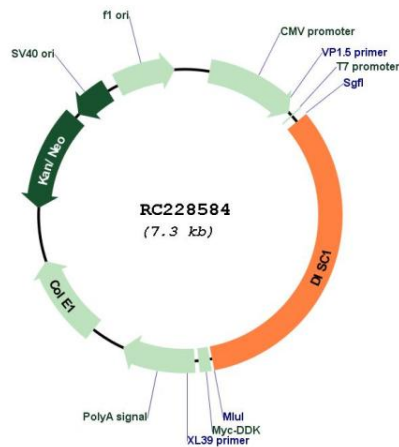
Locus ID: 27185

Cytogenetics: 1q42.2

MW: 87.6 kDa

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 RC228584