

Product datasheet for **MC221665**

Disc1 (NM_174853) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Disc1 (NM_174853) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Disc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221665 representing NM_174853
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGGGCGGGGTCCCGGGGCGCTCCGATCCACAGTCCGAGCCACGGCGCAGACAGTGGGCATGGCT
 TACCGCCTGCAGTAGCCCTCAGAGGCGGCGGCTGACACGAGACCAGGCTACATGAGAAGCACAGCGGG
 TTCTGGGATCGGGTTCCTCTCTCCAGCAGTGGGCATGCCACACCCGAGCTCAGCAGGGCTGACAGGCCAG
 CAGTCCCAACTCACAGTCCAAGGCTGGACAGTGGGACTTGACCCTGGGAGCCACTGCCAAGCCTCAC
 TGGTGGGCAAGCCTTTTCTCAAGAGCTCCCTTGCCCTGTGGCTCTGAGGGCCACCTGCACCCAGC
 CCAGCGCTCTATGAGAAAAAGACCAGTGCCTTTGCGGTTCAATCCAAGAATGACAGCAGACAATCTGAG
 AGGCTGACTGGGTCATTAAGCCTGGGACAGTGGGTTTTGGCAAGAATTATTATCTTCAGACAGCTTTA
 AGTCTCTGGCTCCTAGCCTTGATGCACCCTGGAACAAGGGATCAAGGGGCTGAAGACTGTGAAACCTCT
 GGCATCACCGGCTTGAATGGCCCGCTGATATCGCATCCCTCCCGGCTCCAAGACACCTTCACTTCC
 AGCTTCAGCTTCACTCAACTCTCCCTGGTGCTGCTGGAGAACCGGAGAGAAGCAGAAAGTTGCCTGCCAT
 CCAGAGAGGCCGAACCTCTGCATCAGAGGCCCAAGAGATGGCAGCTGAAGCATCTAGCTCAGACAGGCC
 CCACGGGGATCCTCGGCATCTCTGGACCTTCACTTTCACGCTGCTCCAGGCTTGGCGGACTTGGCTCAG
 GTGACAAGGAGCAGCAGCAGGCAATCAGAAATGTGGCAGCGTCTCCTCCTCCTCGGACTGGCTTCT
 CTTCCAGGATGCATCCTCCGCTGGTGGCGGGGCGACCAGGGCGGCGGCTGGGCCGATGCCATGGATG
 GCATACATTGCTCAGGGAATGGGAGCCATGCTGCAGGACTACCTACTGAGCAACCGCAGGCAGCTGGAG
 GTCACCTCCTTAATTTAAAGCTTCAGAAATGTCAAGAAAAAGTGGTCGAGGATGGCGATTACGATACTG
 CAGAGACATTGAGACAGAGGTTGAAGAACTGGAACAGGAGAAAGCCGCTGTCTGGCTCTGCCTTCC
 ACAGCAACCTGCTCTTCGAGCTTCTTGGTTACCTGGCAGCACAGATACAGGTGGCCTTGATGGAGCC
 ACCCAAAGGGCCGCGCAGCGATGATCCAGAAGCCCCACTTGAAGGACAGCTGAGGACTACCGCCAGGATA
 GCCTGCCTGCATCCATCACCAGGAGGGACTGGCTTATTCGAGAGAAAACAGCGATTGAGAAAGAAATCGA
 AGCTCTCCAAGCAGGATGTCTGCGCTGGAGGCAAGGAAAAACGGCTGAGCCAAGAGTTGGAGGAGCAG
 GAGGTGCTGCTCCGGTGGCCGGGCTGTGACCTGATGGCACTGGTGGCCAGATGTCCCAGGCCAGCTGC
 AGGAGGTGAGCAAGGCCCTGGGAGAGACCCTGACCTCTGCCAACCAGGCTCCCTCCAGGTGGAGCCACC
 TGAGACCCTCAGGAGCCTCCGGGAAAGGACAAAATCACTGAACCTGGCTGTGAGAGAACTACTGCTCAG
 GTGTGCTCAGGTGAGAAGCTGTGCAGCTCTCTGAGGAGGAGACTCAGTGACCTCGACACCAGGCTGCCTG
 CCTTGCTGGAAGCCAAGATGCTGGCCCTATCAGAAACACGCATGAAGGCAAACTGTGAAGTGCATGGA
 AGTGTGGAAAGGTGAGCTGAGCAGCTGCAGGTGCCCGCTGCTTGGGAGAGTGTGGAAGCAGACTTGGAG
 ACTTGTGAGTTGCTAATGCAGAGCCTGCAGCTTCAAGGAGGAGCAGAGCCACACGCAGAGGACGAGG
 AGCAGGTGCATAGCACAGGAGAGGCCCGCCAGACAGCTGCTCTGGCTGTCCCTCGAACACCCACCCCGA
 AGAAGAAAAGTCCCCCTTGCAGGTGCTCCAGGAGTGGGACACCCACTCAGCTCTTTCACCACACTGTGCT
 GCAGGCCCATGGAAGAGGATTCTCACATCGTTTCTGCTGAAGTTGGAGAAAAGTGGCAAGCCATAGGCG
 TGAAGCTCCTACACCTGGAAGACCAGCTTCTCGGAGCCATGTACAGTACAGTACGATGAGGCTCTCTTTCAGTC
 TCTCCAGGGGAGCTCCAGACGGTGAAGGAAACACTGCAGGCCATGATCCTGCAGCTCCAGCCAACAAAG
 GAGGCAGGAGAGGCCCTCAGCTTCTATCCGACAGCTGGTGTCTCAGGAAACCGAGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_174853
 Insert Size: 2370 bp

OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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_174853.2 , NP_77278.2
RefSeq Size:	2408 bp
RefSeq ORF:	2370 bp
Locus ID:	244667
UniProt ID:	Q811T9
Cytogenetics:	8 73.26 cM
Gene Summary:	<p>Involved in the regulation of multiple aspects of embryonic and adult neurogenesis. Required for neural progenitor proliferation in the ventricular/subventricular zone during embryonic brain development and in the adult dentate gyrus of the hippocampus. Participates in the Wnt-mediated neural progenitor proliferation as a positive regulator by modulating GSK3B activity and CTNNB1 abundance. Plays a role as a modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including neuron positioning, dendritic development and synapse formation. Inhibits the activation of AKT-mTOR signaling upon interaction with CCDC88A. Regulates the migration of early-born granule cell precursors toward the dentate gyrus during the hippocampal development. Plays a role, together with PCNT, in the microtubule network formation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame segment in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p>