

Product datasheet for **MR208938**

Dis3 (BC027357) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dis3 (BC027357) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dis3
Synonyms:	2810028N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208938 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCAGGTCCAAGACGTTCTTGAAGAAGACCCGCGCGGGCGGCGTGGTGAAGATCGTGCAGCACT
 ACCTGCGGGATGACATCGGCTGCGGCGCGCCGGCTTGCTCGGCCTGCGGGGGGCGCACGCGGGCCCGGC
 CCTGGAGCTGCAGCCCCGGGACAGCGAGCAGCCTCTGCCCGTGGCCGCACTACCTTCTGCCGGACACC
 AATGTGCTGCTGCACCAGATTGATGTCCTCGAACACCCGGCCATCAAAAAATGTCATTGTGCTACAAACAG
 TGATGCAAGAAGTGAGAAACCGAGCGCCCCATCTACAAGCGAATCAGGGATGTGACCAATAACCAGGA
 AAAGCATTCTATACCTTCACTAATGAGCACCATAAAGAACTACATCGAGCAAGAGCAGGAGAGAAT
 GCCAATGACAGGAATGACAGAGCCATCCGAGTCGACGCAAGTGGTACAACGAGCACCTGAAGAGGGTGG
 CAGCAGACAGTCAGTCAAGTTATCCTGATAACCAATGACAGGAAGAACAAGAGAAAGCTGTGAAGA
 GGGGATACCAGCCTTACGTGTGAAGAATACGTAAGAGCCTGACTGCTAACCTGAACCTATAGACCGT
 CTTGCTTACTTGTCCGATGAAATGAATGAAATAGAAAAGTGGGAAAATAATATTTTCAGAGCATCTCCCT
 TAAGCAAGCTCCAACAAGGCATAAAATCTGGTTCTATCTTCAAGGAACATTCAGAGCTAGCAGGAAAA
 TTTTTGGAGGCTACAGTATGGATTCATGGAGACAAAAGAGGAAAAAGAGATACTTATACAGGGAATT
 AAGCATCTAAACAGAGCTGTGCATGAAGACATTGTGGCCGTGGAGCTACTGCCAGGAGCCAGTGGGTGG
 CACCGTCTCCGTGGTTTTAGACGATGAAGGTCAAATGAAGACGATGTGGAGAAAGATGAGGAGAGAGA
 ACTCCTGCTTAAGACTGCTGTAAGTAAAAATGTTACGGCTACAGGTCGAGTTGTGGGATAATAAAA
 AGGAACGGAGACCGTATTGTGGCATGCTTCCAAAGTCTGATATTAAGGAGTCAAGAAGACATCTCTTTA
 CACCCGCTGATAAGAGAATCCACGAATTCGGATAGAAAATCTAGATATCCAATGGACACTTTGTAAAGAATTA
 AATTATTGTCGCTATTGATGGTTGGCCTAGAAAATCTAGATATCCAATGGACACTTTGTAAAGAATTA
 GGCGATGTTGGAGAGAAGGAGACAGAAACGGAAGTGTGCTGCTCGAGCACGATGTTCTCATCAGCCCT
 TTTCCAGGCTGTGCTTAGCTTCTGCCAGGATGCCCTGGAGCATTACTGAGGAGGACATGAAAAACCG
 AGAAGACCTGAGACATCTGTGTGTTGTCAGTGTGGACCTCCAGGGTGCCTGACATAGATGACGCTCTG
 CATTGTAGAGAGCTCAGCAATGGAACCTGGAGGTTGGTGTTCATATTGCGGATGTTAGCCATTTTATCA
 GGCCAGGAAATGCGTTGGATCAAGAATCTGCAAGAAGAGGAACAACCTGTTTATCTTTGTGAAAAGAGGAT
 TGACATGGTTCCAGAGTTGCTCAGTCCAACCTCTGTTCTTAAGATCCAACGTTGACAGGCTTCTCTTA
 CGTACCGGAAGCACAGA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208938 protein sequence
 Red=Cloning site Green=Tags(s)

MLRSKTFLLKTRAGGVVIVREHYLRDDIGCGAPACSACGGAHAGPALELQPRDQASSLCPWPHYLLPDT
 NVLLHQIDVLEHPAIKNVIVLQVYMQEVRNRSAPIYKRIRDVTNNQEKHFYFTTNEHHKETYIEQEQQEN
 ANDRNDRAIRVAAKWYNEHLKRVAAADSQLQVILITNDRKNKEKAVQEGIPAFTEEYVKSILTANPELIDR
 LAYLSDMEMNIEESGKIIIFSEHLPLSKLQGGIKSGSYLQGTFRASRENYLEATVWIHGDKEEKEILIQGI
 KHLNRAVHEDIVAVELLPRSQWVAPSSVLDDEGQNEDDVEKDEERELLKTAVSEKMLRPTGRVVGIIK
 RNWRPYCGMLSKSDIKESRRHLFTPADKRIPRIETRQASALEGRRIIVAIIDGWPRNSRYPNGHFVKNL
 GDVGEKETETEVLLL EHDVPHQPFQAVLSFLPRMPWSITEEDMKNREDLRHLCVCSVDPGCTDIDDAL
 HCRELSNGNLEVGVIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMVPPELLSSNLCSLRSNVDRLLL
 RTRKHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC027357

ORF Size: 1698 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: [BC027357](#), [AAH27357](#)

RefSeq Size: 2996 bp

RefSeq ORF: 1700 bp

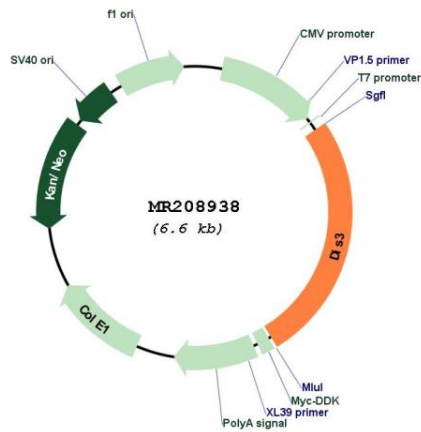
Locus ID: 72662

Cytogenetics: 14 E2.2

MW: 64.6 kDa

Gene Summary:

Putative catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. DIS3 has both 3'-5' exonuclease and endonuclease activities.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR208938