

## Product datasheet for **TP508938**

### Dis3 (BC027357) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse DIS3 mitotic control homolog ( <i>S. cerevisiae</i> ) (cDNA clone MGC:37123 IMAGE:4952415), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR208938 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MLRSKTFLLKTRAGGVVKIVREHYLRDDIGCGAPACSACGGAHAGPALELQPRDQASSLCPWPHYLLPDT  
NVLLHQIDVLEHPAIKNVIVLQTMQEVNRNSAPIYKRIRDVTNNQEKHFYFTNEHHKETYIEQEQGEN  
ANDRNDRAIRVAAKWYNEHLKRVAADSQLQVILITNDRKNKEKAVQEGIPAFTCCEYVKSILTANPELIDR  
LAYLSDEMNEIESGKIIFSEHLPLSKLQQGIKSGSYLQGTFRASRENYLEATVWIHGDKKEEKEILIQGI  
KHLNRAVHEDIVAVELLPRSQWVAPSSVLDDEGQNEDDVEKDEERELLLKTAVSEKMLRPTGRVVGIIK  
RNWRPYCGMLSKSDIKESRRHLFTPADKRIPRIETRQASALEGRRIVAIDGWPRNSRYPNGHFVKNL  
GDVGEKETETEVLLLEHDVPHQPFQAVLSFLPRMPWSITEEDMKNREDLRHLVCVSDVPPGCTDIDDAL  
HCRELSNGNLEVGVHIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMVPPELLSSNLCSLRSNVDRLLL  
RTRKHR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	64.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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Locus ID: 72662

UniProt ID: [Q9CSH3](#)

RefSeq Size: 2996

Cytogenetics: 14 E2.2

RefSeq ORF: 1698

Synonyms: 2810028N01Rik

**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]