

Product datasheet for **RG226264**

DIS3 (NM_001128226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIS3 (NM_001128226) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIS3
Synonyms:	2810028N01Rik; dis3p; EXOSC11; KIAA1008; RRP44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226264 representing NM_001128226
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCAAGTCCAAGACGTTCTTAAAAAAGACCCGGGCGGGCGGCGTGATGAAGATCGTGCGCGAGCACT
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 CCTGGAGCCGACGCCAGGACCCGCGCAGCAGCGTCTGCCCGCAACCGCACTACTTGTGCCCGCACT
 AATGTGTTACTGCACCAGATTGTAAGTGCTGGAGGCCGGGGACCTGGGCTTCTGTGGCCTCCAGCCTGC
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 AGCGATTTCGAGTAGCAGCAAAAATGGTACAATGAACATTTGAAAAAATGTCAGCAGACAACCAGCTGCAA
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 AGGGAATGAAATAGAAAGTGGAAAAATAATATTTTCAGAGCATCTCCCTTAAGTAAGCTACAGCAAGGC
 ATAAAATCTGGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTAAGTGAAGCTACAGCAAGGC
 GGATTCATGGCGACAATGAAGAAAATAAAGAGATAATCTTACAGGGACTTAAACATTTAAACAGAGCTGT
 TCACGAAGATATTGTGGCTGTGGAGCTTCTCCCAAGAGTCAGTGGGTAGCACCATCTTCTGTGGTTTTA
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 TAAGCGAGAAAATGTTGAAGCCTACAGGTAGAGTTGTAGGAATAATAAAAAGGAATTGGAGACCATTG
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 CCTCGAATTCGCATAGAAACCAGACAGGCTTCCACATTAGAAGGACGGAGAATTATTGTTGCTATTGATG
 GTTGGCCAGAAAATCCAGATATCCAAAATGGACACTTTGTGAGAAAATTTAGGTGATGTTGGAGAGAAA
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 TCACAATGCTGAAATCTTAAAAACGAAGTTTACCAAAAGTGTATTAATCAAAGGCATCTCTGACGTAT
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 TCTTCAACATCAGAAGATCCGAATGTCCCTGGTAGAACCCAGATACCAGGAATAAGCATTCTACTGAT
 ACTTCAAACATGGACCTAATGGACCAAGAAAAGAAGATGAAGCTTGGAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226264 representing NM_001128226
 Red=Cloning site Green=Tags(s)

MLKSKTFLKKTRAGGVMKIVREHYLRDDIGCGAPGCAACGGAHEGPALEPQPDPASSVCPQPHYLLPDT
 NVLLHQIVSAWRPGTWASVASSLRLPGSLETYYVEQEQGENANDRNDRAIRVAAKWYNEHLKMSADNQLQ
 VIFITNDRRNKEKAIEEGIPAFPTCEEYVKSLTANPELIDRLACLSEEGNEIESGKIIFSEHLPLSKLQQG
 IKSGTYLQGTFRASRENYLEATVWIHGDNENKEIILQGLKHLNRAVHEDIVAVELLPKSQWVAPSSVVL
 HDEGQNEEDVEKEEETERMLKTAVSEKMLKPTGRVVGIIKRNWRPYCGMLSKSDIKESSRRHLFTPADKRI
 PRIRIETRQASTLEGRRIIVAIIDGWPRNSRYPNGHFVRNLGDVGEKETETEVLLLEHDVPHQPFSSQAVLS
 FLPKMPWSITEKMKNRDLRHLCSVDPPGCTDIDDALHCRELENGNLEVGVHIADVSHFIRPGNALD
 QESARRGTTVYLCEKRIDMVPELLSSNLCSLKCDVDRLAFSCIWEMNHNAEILKTKFTKSVINSKASLTY
 AEAQLRIDSANMDDITSLRGLNKLAKILKRRIEKGALTLSSPEVRFHMDSETHDPIDLQTKELRETN
 SMVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNYEILVKAARSRLNLEIKTDTAKSLAESLDQAES
 PTFPYLNTLLRILATRCMMQAVYFCSGMDNDFHHYGLASPIYTHFTSPIRRYADVIVHRLLAVAIGADCT
 YPELTDKHLADICKNLNFRHKMAQYAQRASVAFHTQLFFKSKGIVSEEAYILFVRKNAIVVLI PKYGLE
 GTVFFEEKDKPNPQLIYDDEIPSLKIEDTVFHVFDKVKVKIMLDSSNLQHQQIRMSLVEPQIPGISIPTD
 TSNMDLNGPKKKMKLGK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

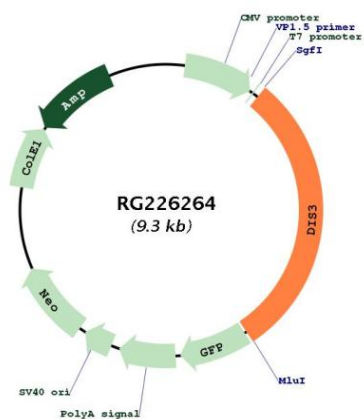
Cloning Scheme:



ACCN: NM_001128226

ORF Size:	2784 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:	<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_001128226.3
RefSeq Size:	7577 bp
RefSeq ORF:	2787 bp
Locus ID:	22894
UniProt ID:	Q9Y2L1
Cytogenetics:	13q21.33
Protein Pathways:	RNA degradation
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 RG226264