

Product datasheet for **SC323238**

DIS3 (NM_001128226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIS3 (NM_001128226) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIS3
Synonyms:	2810028N01Rik; dis3p; EXOSC11; KIAA1008; RRP44
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001128226, the custom clone sequence may differ by one or more nucleotides

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ATGCTCAAGTCCAAGACGTTCTTAAAAAGACCCGGGCGGGCGGCGTGATGAAGATCGTG
CGCGAGCACTACCTGCGAGACGACATCGGCTGCGGTGCGCCCGGGTGCGCAGCGTGTGGA
GGGGCGCACGAGGGGCCGGCCCTGGAGCCGACGCCCCAGACCCGGCGAGCAGCGTCTGC
CCGCAACCGCACTACTTGTCTGCCGACACTAATGTGTTACTGCACCAGATTGTAAGTGCC
TGGAGCCCGGGACCTGGGCTTCTGTGGCTCCAGCCTGCGACTCCAGGCAGCTTAGAA
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GTAGCAGCAAAAATGGTACAATGAACATTTGAAAAAATGTCAGCAGACAACCAGCTGCAA
GTTATCTTCATAACAAATGACAGGAGAAAACAAAGAGAAAGCCATAGAAGAAGGAATACCA
GCTTTCACCTGTGAAGAAATGTAAAGAGCCTAACTGCTAACCCCGAACTCATAGATCGT
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CATCTTCCCTTAAGTAAGCTACAGCAAGGCATAAAATCTGGTACATACCTTCAAGGAACA
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GAAAATAAAGAGATAATCTTACAGGGACTTAAACATTTAAACAGAGCTGTTACGGAAGAT
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CGTGGACTGAATAAACTAGCCAAAATTTCTGAAGAAAAGAAGGATTGAAAAAGGGCTTTG
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CTGCAGACCAAGGAACCTTAGGAAAACAAATTCATGGTTGAAGAAATTTATGTTACTTGCC
AATATTTCTGTTGCAAAAAAATTCATGAGGAATTTTCTGAACATGCTCTGCTTCGAAAA
CATCCTGCTCCACCTCCATCAAATTAAGAAATCTTGTAAAGGCAGCCAGGTCAAGGAAT
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CCTACTTTTCCATATCTAAACACTCTGTTGAGAATATTAGCCACTCGCTGTATGATGCAA
GCTGTGTACTTCTGTTCTGGAATGGATAATGATTTTTCATCACTATGGCTTAGCGTCTCCA
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GGGACAGTCTTTTTGAAAGAAAAGGACAAACCAACCCACAGCTTATTTATGATGATGAG
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ATCATGTTAGACTCATCTAATCTTCAACATCAGAAGATCCGAATGTCCCTGGTAGAACCA
CAGATACCAGGAATAAGCATTCTACTGATACTTCAAACATGGACCTTAATGGACCAAAG
AAAAAGAAGATGAAGCTTGGAAAA
    
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Restriction Sites: Please inquire

ACCN:	NM_001128226
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001128226.1</u> , <u>NP_001121698.1</u>
RefSeq Size:	7577 bp
RefSeq ORF:	2787 bp
Locus ID:	22894
UniProt ID:	<u>Q9Y2L1</u>
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]

Transcript Variant: This variant (2) lacks an exon and contains an alternate exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.