

Product datasheet for **MR216397**

Dis3l2 (NM_001172157) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dis3l2 (NM_001172157) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dis3l2
Synonyms:	4930429A22Rik; 8030493P09Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR216397 representing NM_001172157
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACCATCCTGACTACAAGCTGAACCTTCGGTCTCCGGGACCCCCAGAGGTGTCTCTGTGGTTG
GCCCGAGTGCTGTTGGTCTTCGCCAGGTGACAAAAAGTCAAAGAACAAGTCCATGCGAGGGAAGAAAA
GAGCATATTTGAAACCTACATGTCCAAGGAGGATGTTTCAGAAGGCTTGAAGAGAGGAACACTTATCCAG
GGTGTATTGAGAAATCAACCCAAAGAAGTTTCATGAAGCCTTCAATCCTTCTCCGGATGGTATCGGGACA
TTTTTATTGATGGAGTTGTTGCTCGTAATAGAGCCTTAAATGGGGACCTTGTGGTTGAAAACTGCTTCC
TGAGGATCAGTGGAAAGCAAGGATAACCTTGTCTGCTGGAGTGTGGGATTACAGGCAGTTAAACCA
GAGAGCAATGACAAAGAAATAGAAGCTACTTATGAAGCTGACATCCCTGAAGAGGGCTGTGGACATCACC
CCCTGCAGCAGTCCCGAAAGGCTGGAGTGGTCTGATGTCATTATAGAGGCTCAGTTTGTGACAGCGA
CTCAGAAGATAGACATGGCAACACCAGTGGCCTGGTTGATGGTGTAAAGAAATTGCAATCTCTACTCCT
GACAGAGGAAAAGAAGATTCTAGTACTCCAGTTATGAAAGATGAGAACACCCCCATACCACAGGACACAA
GAGGCTTATCAGAGAAGTCACTTCAGAAATCAGCAAAGGTGGTTTACATCTTGGAGAAAAAGCATTCTCG
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TCTCCTCAGACCACCGAGTACCTAGAAATTTACGTACCTCTCAAGGACTGTCCCCAGGACTTCATGACCC
GACCTAAAGACTTTGCCAACACGCTGTTTCATCTGCCGCATCATAGACTGGAAGGAGGACTGTAATTTTGC
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GAATATGGTGTGGACTTCTCTGATTTCTCTTCAGAAGTCTTGAATGTCTCCCTCAAAGCCTGCCCTGGA
CAATCCCACCTGATGAGGTGGCAAGAGAAGACCTAAGGAAAGACTGTATCTTACCACCTTGATCCATC
AATGCTCGCGACCTTGATGATGCCCTCGCCTGCAGGCGGCTCACTGATGGCACCTTCGAAGTGGCGCTC
CACATCGCCGATGTGAGTTACTTTGTTCTGAGGGATCCTCTTTGGATAAAGTAGCTGCTGAGAGAGCCA
CAAGTGTCTACTTGGTCCAGAAGGTGGTCCCCATGCTTCCAGGCTTCTGTGTGAGGAACTCTGCAGCCT
CAACCCCATGACTGACAAGCTGACCTTCTCTGTGATCTGGAAGCTGACCCCTGAAGGCAAGATCCTTGAA
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AAAATCCAAGTGAAGAATCCCTGAGGAAGAGCTTCCCCAATTTCTCCAGAGCACAGCGTCGAGGAGGT
GCACCAGGCACTCTGAACCTGCACAGCATTGCAAAGCAACTCCGCCGCCAGCGCTTTGTAGATGGCGCA
CTCCGTTTATGATCAGCTGAAGCTTGCTTTACTCTGGACCATGAGACTGGACTGCCTCAAGGATGTCACA
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CAAGATCTTCCGACCTTCCCTGAGCAGGCCCTGCTGCGCCGGCATCCCCACCACAGACGAAGATGCTC
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GCAGTTCTAGTAAAGGAGAGTGGCCCCCTGGAGTCCGAAGCCATGGTGTGGGTGCTTGAACCAAGCTT
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CCAACACAGCAGGTATCACCATCTTCAGCCTGGTGGATGTGGTCTGCAGGCAGAGGCCACAGCCCTCA
AGTACAGTGCTATCCTGAAGCGACCAGGCTGGAGAAGGCGTCTGATGAGGAGCCTGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216397 representing NM_001172157
 Red=Cloning site Green=Tags(s)

MNHPDYKLNLRSPGTPRGVSSVVGPSAVGASPGDKKSKNKSMRGKKKSI FETYSKEDVSEGLKRGTLIQ
 GVL RINPKKFHEAFIPSPDGRDIFIDGVVARNRNLNGDLVVVKLLPEDQWKPRITLSLPGVLGLQAVKP
 ESNDKEIEATYEADIPEEGCGHPLQSRKGSWSPDVIIEAQFDDSDSEDRHGNTSGLVDGVKKLSTP
 DRGKEDSSTPVMKIDENTPIPDTRGLSEKSLQKSAKVYVILEKKHSRAATGILKLLADKNSDLFKKYALF
 SPSDHRVPRIYVPLKDCPQDFMTRPKDFANTLFCRIIDWKEDCNFALGQLAKSLGQAGEIEPETEGILT
 EYGVDFSDFSSEVLECLPQSLPWTIPPDEVGKRRDLRKDCIFTIDPSTARLDLDDALACRRLTDGTFEYGV
 HIADVSFVPEGSSLDKVAERATSVYLVQKVVPMLPRLLCEELCSLNPMTDKLTFSVIWKLTPEGKILE
 EWFGRTIIRSCTKLSYDHAQSMIENPTEKIPPEELPPISPEHSVEEVHQAVLNLHSIAKQLRRQRFVDGA
 LRLDQLKLAFTLDHETGLPQGCHIYEYRDSNKLVEEFMLLANMAVAHKIFRTFPEQALLRRHPPPQTKML
 SDLVEFCQMGLPMDVSSAGALNKSLTKTFGDDKYSLARKEVL TNMYSRPMQMAL YFCGMLQDQEQRH
 YALNVPLYTHFTSPIRRFADVI VHRLLAAALGYSEQPDVEPDTLQKQADHCNDRRMASKRVQELSIGLFF
 AVLKESGPLESEAMVMGVLNQAFDVL VLRFGVQKRIYCNALALRSYSFQKVGGKPELTLVWEPDDLEEE
 PTQQVITIFSLVDVVLQAEATALKYSAILKRPGLKASDEEPEP

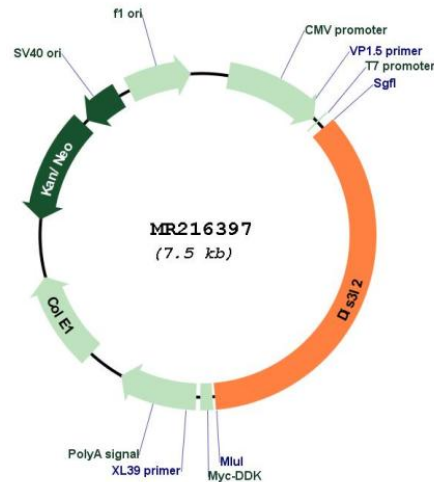
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001172157

ORF Size: 2652 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: [NM_001172157.1](#), [NP_001165628.1](#)

RefSeq Size: 3171 bp

RefSeq ORF: 2655 bp

Locus ID: 208718

UniProt ID: [Q8CI75](#)

Cytogenetics: 1 C5

MW: 99.7 kDa

Gene Summary: 3'-5'-exoribonuclease that specifically recognizes RNAs polyuridylated at their 3' end and mediates their degradation. Component of an exosome-independent RNA degradation pathway that mediates degradation of both mRNAs and miRNAs that have been polyuridylated by a terminal uridylyltransferase, such as ZCCHC11/TUT4. Mediates degradation of cytoplasmic mRNAs that have been deadenylated and subsequently uridylated at their 3'. Mediates degradation of uridylated pre-let-7 miRNAs, contributing to the maintenance of embryonic stem (ES) cells. Essential for correct mitosis, and negatively regulates cell proliferation.[UniProtKB/Swiss-Prot Function]