

Product datasheet for **MR204028**

Exosc2 (NM_144886) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exosc2 (NM_144886) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Exosc2
Synonyms:	Rrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204028 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTTGGAGATGAGGCTCCCTAAAGCTCGCAAACCTCTCAGTGAGAGCTTGGGCCGCGACTCTAAGA
AACACTTGGTGGTGCCGGGGACACGATCACCACGGACACAGGCTTCATGCGGGCCATGGGACATACAT
GGGGGAAGAGAAGCTCATTGCGTCTGTGGCCGGCTCTGTGGAGAGAGTGAACAACTGATCTGTGTCAA
GCCTTGAAAACCAGATACAATGGAGAGGTCGGAGACATTGTAGTGGGAGAATCACAGAGGTTCAACAGA
AGAGGTGGAAGGTAGAGACCAATCCAGGCTGGACTCCGTCTTGCTCCTCATCCATGAACCTACCTGG
GGGAGAGCTGAGGAGAAGGTCTGCGGAGGATGAGCTGGCCATGAGAGGCTTCTTGAGGAAGGCGACCTC
ATCAGTGCGGAGGTCCAGGCTGTGTTCTCGGATGGAGCTGTTTCTCTGCACACGAGGAGCCTGAAATATG
GGAAGCTAGGTACAGGAGTTTTAGTCCAGGTCTCGCCTCCCTGGTAAAAGACAGAAGACTCATTTCCA
TGACTTGCCATGTGGTGCCTCAGTGATTCTGGTAACAACGGTTTCATCTGGATCTACCAACACCTGAG
CACAAGGATGAGGATGCTGGGGCTTATTGCTAACTGGAGCCCGTAGCTTTAGTGATCGAGAGGTGA
TCTCCCGCTTCGGAAGTGTGTAGTCTTGCTGGTAACCTCAGAGATGATGCTGTTTCGACACCAGCATCCT
GTACTGCTATGAGGCCTCCCTTGCGCATCAGATCAAGGATATCTTAAAACCGGAAGTAATGGAGGAGATC
ATGCTGAAACACGCCAGAGGCTTTGGACCAGGAGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

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_144886.3](#)

RefSeq Size: 1635 bp

RefSeq ORF: 882 bp

Locus ID: 227715

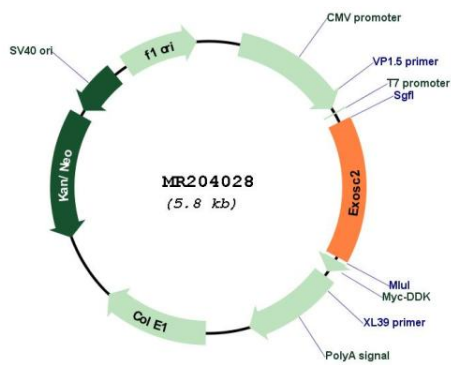
UniProt ID: [Q8VBV3](#)

Cytogenetics: 2 B

MW: 32.6 kDa

Gene Summary: Non-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. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC2 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC4 and EXOSC7 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204028