

Product datasheet for **MC215817**

Exosc9 (NM_019393) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Exosc9 (NM_019393) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Exosc9 |
| Synonyms: | p5; p6; PM/Scf-75; Pmscl1; RRP45 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC215817 representing NM_019393
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGAGACGCCGCTTCCAACGTGTAGCGCCGCTTCTGCTCCGCGCAATTGAGGAGAAGAAGCGCC
 TGGACGGCAGACAGACCTATGATTACAGGAACATCAGGATCTCATTGGAACGGATTATGGATGCTGTAT
 TGTGGAACGGGAAAAACAAGATCCTTGGACAGGTTTCTGTGAACCTGTTTCTCCGAACTCAATAGG
 GCAACGGAAGGTATCCTCTTTTTAACCTTGAGCTTTCTCAGATGGCTGCTCCAGCTTTTGGCCTGGCA
 GGCAGTCAGATCTTGGTGAAGCTGAATCGACTCTTAGAAAGGTGTCTACGAAATCAAAGTGTATAGA
 CACTGAATCTCTGTGTGCTGCTGGTAAAAGGTTTGGCAGATCCGTGTAGACCTACATTTATTAAT
 CATGATGGGAATATTATTGATGCTGCTAGCATTGCTGCAATTGTAGCCTTGTGCTACTCCGAAGACCTG
 ATGTCTGTGTCCAAGGAGAGGAAGTAACACTGTATACCCCTGAAGAGCGTGATCCCGTCCATTGAGCAT
 CCACCATATGCCATTTGTGTCAGTTTTGCTTTCTTTCAGCAAGGAACATACTTATTGGTGGACCCCAAT
 GAACGTGAAGAACGAGTAATGGATGGCTTGTGCTGATTGCCATGAATAAGCATCGAGAAATTTGTTACTA
 TTCAGTCTAGTGGTGGGATAATGCTGCTTAAAGACCAGGTTTTAGATGCAGTAAATAGCTGGTGTGAA
 AGTAGCAGAAATCACAGAGCTAATACAGAAAGCTTTGAAAAATGACCAGAGAGTCAGGAAAGAAGGTGGA
 AAATTTGGCTTTGCAGAGTCTATAGCAAACCAAGAATCACAGCGTTTAAATGGAGACGGCCCTATTG
 ATACCTCCAACATAGAGGAGAGAGCAGAAGAAATTATTGCTGAAGCTGAACCTCCCCCAGAAGTTGTTTC
 TCAACCTGTGCTGTGGACTCCTGGAACGCCCAGATTGGAGACGGAATAGAAAACCTCTGGGGTGACCTT
 GAAGATTCTGAGAAGGAAGAGGAAGAGGAGGAAGGTGGCATTGATGAAGCTGTCATTCTTGATGATACAA
 AGATGGACACTGGAGAAGTTTCTGATATTGGGAGTCAAGGTGCCCTATAGTGCTATCAGATAGTGAAGA
 AGAAGAAATGATTATTTTGGAGCCAGAGAAGAACCCAAAGAAAAAAGAGCTCAGACCAGTGCAAACCCAG
 AAGGCACCAAGTAAAGGCCAAGGAAAAGGAAGAAGAAGAAGAACTGCTAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_019393

Insert Size: 1317 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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).

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| 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_019393.2</u> , <u>NP_062266.1</u> |
| RefSeq Size: | 1622 bp |
| RefSeq ORF: | 1317 bp |
| Locus ID: | 50911 |
| UniProt ID: | <u>Q9JHI7</u> |
| Cytogenetics: | 3 B |
| Gene Summary: | <p>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. EXOSC9 binds to ARE-containing RNAs (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p> |