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Product datasheet for MC204296

Exosc2 (NM_144886) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exosc2 (NM_144886) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Exosc2
Synonyms:	Rrp4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC021485 CCACGCGTCCGCGGACGCGTGGGCAAGATGGCGTTGGAGATGAGGCTCCCTAAAGCTCGCAAACCTCTCA GTGAGAGCTTGGGCCGCGACTCTAAGAAACACTTGGTGGTGCCGGGGGACACGATCACCACGGACACAGG CTTCATGCGGGGCCATGGGACATACATGGGGGAAGAGAAGCTCATTGCGTCTGTGGCCGGCTCTGTGGAG AGAGTGAACAAACTGATCTGTGTCAAAGCCTTGAAAACCAGATACAATGGAGAGGTCGGAGACATTGTAG TGGGGAGAATCACAGAGGTTCAACAGAAGAGGTGGAAGGTAGAGACCAATTCCAGGCTGGACTCCGTCTT GCTCCTCTCATCCATGAACCTACCTGGGGGAGAGCTGAGGAGAAGGTCTGCGGAGGATGAGCTGGCCATG AGAGGCTTCTTGCAGGAAGGCGACCTCATCAGTGCGGAGGTCCAGGCTGTGTTCTCGGATGGAGCTGTTT CTCTGCACACGAGGAGCCTGAAATATGGGAAGCTAGGTCAGGGAGTTTTAGTCCAGGTCTCGCCTTCCCT GGTGAAAAGACAGAAGACTCATTTCCATGACTTGCCATGTGGTGCCTCAGTGATTCTGGGTAACAACGGT TTCATCTGGATCTACCCAACACCTGAGCACAAGGATGAGGATGCTGGGGGCTTCATTGCTAACTTGGAGC CCGTAGCTCTTAGTGATCGAGAGGTGATCTCCCGGCTTCGGAACTGTGTAGTCTTGCTGGTAACTCAGAG AATGATGCTGTTCGACACCAGCATCCTGTACTGCTATGAGGCCTCCCTTGCGCATCAGATCAAGGATATC TTAAAACCGGAAGTAATGGAGGAGATCATGCTGGAAACACGCCAGAGGCTTTTGGACCAGGAGGGATGAG GCCGAGAGCTGAAGGATGGGACTGGGCACCCCCTGGGCCAGTTTTGGGAGTGAAAACTCTGCCATGTGGT CCCCAAGGAGCATCTGACAAACACATTCCTCACCTGCAGTGGGGCTGCAGAGCCAGGCCTGTCTTTCTGT TCTGAGAGAAAACTAGGGGGAGGTAATGGTGGGTTGGGCTCTTGGGTCCCAGTAGTTTTAGGTCTTTCAG AGCACAGTGTCCCGGCCTGATGCTGACTTACCTTGGAATAACTTGGAGAATTTATGACTTCCAATCACCC CACACAATGTAATGCCCCATGAAACTGTCCTGGTAGAAAACATGGTGACCTGGGGATGTATCTCAGGAGT GGACCACTTCCTAAAATGTGCAAGTTCCCAAGTTCCATTTCCAGCCTTACCCTAACCCCAGAAAAAAGAA AACCAAAGACAAAGACATGGCAGTGCCATCGAGAATGGTCTCTTTCCACTTCCGCTCTGTCTCCTTTAAT GCACAAGTGTGTGGTTGGAGAGAAGGTGGTGGAGTCAGGCCAGAGTCAAGTGGATATGAGAATAAAGGGA GGGCTGGTGAGATGGCTCAGTGGGTAAGAGCACCCGACTGCTCTTCCGAAGGTCAGGAGTTCAAATCCCA GCAACCACATGGTGGCTCACAACCATCCGTTACGAGATCTGGCGCCCTCTTCTGGAGTGTCTGAAGACAG CTTCAGTGTACTTACATATAATAAATAAATCTTTAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI

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ACCN:	NM_144886
Insert Size:	882 bp
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).
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:	BC021485, AAH21485
RefSeq Size:	1659 bp
RefSeq ORF:	882 bp
Locus ID:	227715
UniProt ID:	Q8VBV3
Cytogenetics:	2 B
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]