

Product datasheet for RR201287

Rnps1 (NM_001011890) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Rnps1 (NM_001011890) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rnps1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RR201287 representing NM_001011890 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

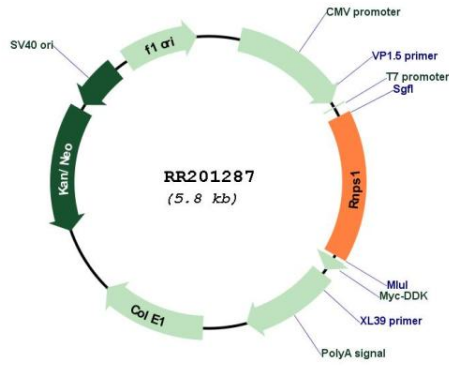
ATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAGAATAATAAAAAGTCCAGCACTA
GGGCTCCTTCTCTACCAAACGAAAGGACCGCTCTGATGAGAAGTCCAAGGATCGATCTAAAGATAAAGG
GACCACTAAAGAGTCCAGTGAGAAGGATCGTGGCAGAGATAAGACCCGGAAGAGACGCAGTGCTTCAAGC
GGAAGCAGCAGCACCAGGTCCAGGTCCAGCTCAACCTCCAGCTCGGGCTCCAGCACCAGCACGGGCTCGA
GCAGTGGCTTAGCTCGTCTTCTGCGTCCAGCCGCTCAGGAAGTCCAGCACATCCCGGAGCTCCAGTTC
CAGCAGCTCCTCCGGCTCCCCAAGCCCTTCTCGGCGCAGACATGACAACAGGCGGCGTTCCTCCGCTCCAAA
TCCAAACCACCTAAAAGAGATGAAAAAGAGAGGAAAAGGCGGAGCCCTTACCTAAACCCACCAAAGTGC
ACATTGGGAGGCTCACCAGGAATGTGACCAAGGATCATATCATGGAAATATTTTCTACTTACGGGAAAAT
TAAAATGATTGACATGCCTGTGGAAGGATGCATCCTCATCTATCCAAAGGCTATGCGTACGTGGAATTC
GAGAATCCGGATGAAGCAGAGAAGGCACTGAAACACATGGATGGAGGACAAATAGATGGCCAAGAGATCA
CTGCTACTGCGGTGTTGGCACCCTGGCCTCGTCCACCGCCTCGGCGATTACGCCACCCAGGAGAATGCT
TCCACCGCCTCCCATGTGGCGTAGTCAACCCACGGATGAGGAGAAGGTCTCGATCCCCAAGACGCAGG
TCCCTGTGCGAAGGAGGTCTCGATCGCCTGGCCGCCCGCCACAGGAGCCGATCCAGCTCCAACCTCT
CCCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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. |
| RefSeq: | <u>NM_001011890.1, NP_001011890.1</u> |
| RefSeq Size: | 1853 bp |
| RefSeq ORF: | 918 bp |
| Locus ID: | 287113 |
| UniProt ID: | <u>Q6AYK1</u> |
| Cytogenetics: | 10q12 |
| MW: | 34.2 kDa |
| Gene Summary: | <p>Part of pre- and post-splicing multiprotein mRNP complexes. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP and PSAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Enhances the formation of the ATP-dependent A complex of the spliceosome. Involved in both constitutive splicing and, in association with SRP54 and TRA2B/SFRS10, in distinctive modulation of alternative splicing in a substrate-dependent manner. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Participates in mRNA 3'-end cleavage. Involved in UPF2-dependent nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Also mediates increase of mRNA abundance and translational efficiency. Binds spliced mRNA 20-25 nt upstream of exon-exon junctions (By similarity). [UniProtKB/Swiss-Prot Function]</p> |

Product images:



Circular map for RR201287