

Product datasheet for **MG204288**

Rnps1 (BC002061) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnps1 (BC002061) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnps1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204288 representing BC002061 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAGAATAATAAAAAGTCCAGCACTA
GGGCTCCTTCTCCTACCAAACGCAAGGACCGATCTGATGAGAAGTCCAAGGATCGATCTAAAGATAAAGG
GGCCACTAAAGAGTCAAGTGAGAAGGATCGTGGCAGAGATAAGACTCGGAAGAGACGCAGTGCTTCAAGC
GGAAGCAGCAGTACCAGGTCTAGGTCCAGCTCAACCTCCAGCTCGGGCTCCAGCACCAGCACAGGCTCAA
GCAGTGGCTCCAGCTCGTCTCTGCATCCAGCCGCTCAGGAAGTCCAGCACGTCCCGGAGCTCCAGTTC
TAGCAGCTCCTCCGGCTCCCCAAGCCCTTCTCGGCGCAGGCATGACAACAGGCGGCGCTCCCGTCCAAA
TCCAAACCACCTAAAAGAGATGAAAAAGAGAGGAAAAGGCGGAGCCCTCACCTAAACCAACCAAAGTGC
ACATTGGGAGGCTCACCAGGAATGTGACCAAGGATCATATCATGGAAATATTTTCTACTTACGGGAAAAAT
CAAAATGATTGACATGCCTGTCGAGAGGATGCATCCTCACCTCTCCAAAGGCTATGCATATGTGGAGTTT
GAGAATCCCGATGAAGCAGAGAAGGCTCTGAAACACATGGATGGAGGACAAATTGATGGCCAAGAGATCA
CTGCTACTGCTGTGTTGGCACCTGGCCTCGGCCACCACCTCGGCGATTACGCCCTCTAGGAGGATGCT
TCCACCACCTCCCATGTGGCGTAGGTCACCCCCACGGATGAGGAGAAGGTCTCGATCCCCAAGACGCAGG
TCCCTGTGCGTAGGAGGTCTCGCTCTCTGGCCGCCCGCCACAGGAGCCGATCCAGCTCCAACCTCT
CCCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204288 representing BC002061
 Red=Cloning site Green=Tags(s)

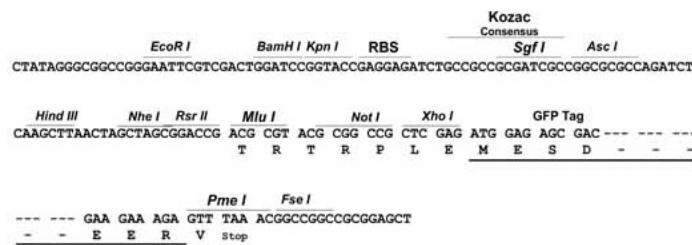
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MDLSGVKKKSL LGVKENKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASS
GSSSTRSRSSSTSSSGSSTSTGSSSGSSSSASSRSGSSSTSRSSSSSSSGSPSPRRRHDRRRRSRSK
SKPPKRDEKERRRSPSPKPTKVHIGRLTRNVTKDHIEMIFSTYGIKIMIDMPVERMHPHLSKGYAYVEF
ENPDEAEKALKHMDGGQIDGQEITATAVLAPWPRPPRRFSPRRMLPPPPMWRSSPPMRRRRSRSPRRR
SPVRRRSRSPGRRRRHRSRSSNSNR
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TRTRPLE - GFP Tag - V

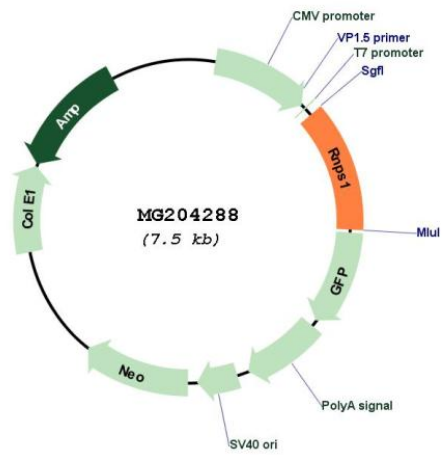
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC002061

ORF Size: 917 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:	<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:	BC002061 , AAH02061
RefSeq Size:	1872 bp
RefSeq ORF:	917 bp
Locus ID:	19826
Cytogenetics:	17 A3.3

Gene Summary:

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]