

Product datasheet for MR204077

Rpsa (NM_011029) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpsa (NM_011029) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpsa
Synonyms:	67kDa; 67lr; AL022858; Lamr; Lamr1; Lamrl1; MLR; P40; P40-3; P40-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204077 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGAGCCCTTGACGTCCTGCAGATGAAGGAGGAGGATGTCCTCAAATTCCTTGCTGCGGGAACCC
ACTTAGGTGGCACCAACCTTGACTTTCAGATGGAGCAGTACATCTACAAAAGGAAAAGTGACGGTATCTA
CATCATAAACCTGAAGAGGACCTGGGAGAAGCTGTTGCTCGCAGCTCGAGCTATTGTTGCCATCGAGAAT
CCTGCTGACGTCAGCGTCATCTCCTCCAGGAACACTGGCCAGCGAGCTGTGCTGAAGTTTGCTGCTGCCA
CAGGAGCCACTCCGATCGCTGGCCGCTTCACACCTGGGACCTTACTAACCAGATCCAAGCAGCCTTCAG
GGAGCCACGGCTTCTAGTGGTGACCGATCCCAGGGCTGACCATCAGCCACTCACAGAGGCCTTATGTG
AACCTGCCACCATTGCTCTGTGTAACACAGATTCTCCCTGCGCTATGTGGACATTGCCATCCCATGCA
ACAACAAGGGAGCTCACTCAGTGGGTCTGATGTGGTGGATGCTGGCCAGGGAAGTACTCCGCATGCGAGG
TACTATCTCCCGTGAGCACCCCTGGGAGGTGATGCCTGATCTTTACTTCTACAGAGACCCAGAGGAGATT
GAGAAGGAGGAGCAGGCTGCTGCTGAGAAGGCTGTGACCAAGGAGGAATCCAGGGTGAATGGACCCGAC
CAGCTCCTGAGTTCAGTCTGCTCAGCCTGAGGTGGCCGACTGGTCTGAGGGTGTGCAGGTTCCCTCTGT
GCCATCCAGCAGTTCACCGAAGACTGGAGTGCACAGCCAGCCACTGAGGATTGGTCCAGCAGCTCCC
ACAGCGCAGGCCACTGAGTGGTGGAGCCACCCTGAGTGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204077 protein sequence
 Red=Cloning site Green=Tags(s)

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIEN
 PADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPRAHQPLTEASYV
 NLPITIALCNTDSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEI
 EKEEQAAA EKAVTKEEFQGEWTAPEFTAAQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAP
 TAQATEWVGATTEWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011029

ORF Size: 888 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:

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_011029.4](#), [NP_035159.3](#)

RefSeq Size: 1861 bp

RefSeq ORF: 888 bp

Locus ID: 16785

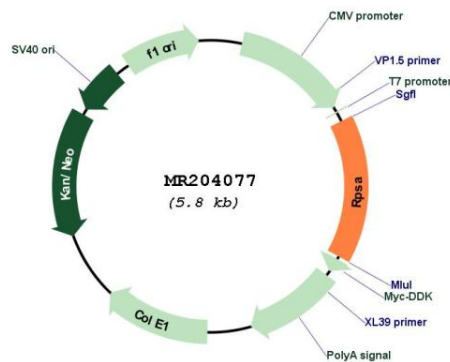
UniProt ID: [P14206](#)

Cytogenetics: 9 71.41 cM

MW: 32.8 kDa

Gene Summary: Required for the assembly and/or stability of the 40S ribosomal subunit. Required for the processing of the 20S rRNA-precursor to mature 18S rRNA in a late step of the maturation of 40S ribosomal subunits. Also functions as a cell surface receptor for laminin. Plays a role in cell adhesion to the basement membrane and in the consequent activation of signaling transduction pathways. May play a role in cell fate determination and tissue morphogenesis. Also acts as a receptor for several other ligands, including the pathogenic prion protein, viruses, and bacteria. Acts as a PPP1R16B-dependent substrate of PPP1CA (By similarity). Enables malignant tumor cells to penetrate laminin tissue and vessel barriers. Activates precursor thymic anti-OFA/iLRP specific cytotoxic T-cell. May induce CD8 T-suppressor cells secreting IL-10.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204077