

Product datasheet for **MG204077**

Rpsa (BC003829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpsa (BC003829) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rpsa
Synonyms:	MLR, P40, 67kDa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204077 representing BC003829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGAGCCCTTGACGTCTGCAGATGAAGGAGGAGGATGTCCTCAAATTCCTTGCTGCGGGAACCC
ACTTAGGTGGACCAACCTTGACTTTCAGATGGAGCAGTACATCTACAAAAGGAAAAGTGACGGTATCTA
CATCATAAACCTGAAGAGGACCTGGGAGAAGCTGTTGCTCGCAGCTCGAGCTATTGTTGCCATCGAGAAT
CCTGCTGACGTGACGTCATCTCCTCCAGGAACACTGGCCAGCGAGCTGTGCTGAAGTTTGCTGCTGCCA
CAGGAGCCACTCCGATCGCTGGCCGCTTCACACCTGGGACCTTACTAACCAGATCCAAGCAGCCTTCAG
GGAGCCACGGCTTCTAGTGGTGACCGATCCCAGGGCTGACCATCAGCCACTCACAGAGGCCTTATGTC
AACCTGCCACCATTGCTCTGTGTAACACAGATTCTCCCTGCGCTATGTGGACATTGCCATCCCATGCA
ACAACAAGGGAGCTCACTCAGTGGGTCTGATGTGGTGGATGCTGGCCAGGGAAGTACTCCGCATGCGAGG
TACTATCTCCCGTGAGCACCCCTGGGAGGTGATGCCTGATCTTTACTTCTACAGAGACCCAGAGGAGATT
GAGAAGGAGGAGCAGGCTGCTGCTGAGAAGGCTGTGACCAAGGAGGAATCCAGGGTGAATGGACCCGAC
CAGCTCCTGAGTTCAGTCTGCTCAGCCTGAGGTGGCCGACTGGTCTGAGGGTGTGACAGTTCCCTCTGT
GCCCATCCAGCAGTTCACCGAAGACTGGAGTGCACAGCCAGCCACTGAGGATTGGTCCAGCAGCTCCC
ACAGCGCAGGCCACTGAGTGGTTGGAGCCACCACTGAGTGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204077 representing BC003829
 Red=Cloning site Green=Tags(s)

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIEN
 PADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPRAHQPLTEASYV
 NLPTIALCNTDSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEI
 EKEEQAAA EKAVTKEEFQGEWTAPEFTAAQPEVADWSEGVPVSVPIQQFPTEDWSAQPATEDWSAAP
 TAQATEWVGATTEWS

TRTRPLE - GFP Tag - V

Restriction Sites:

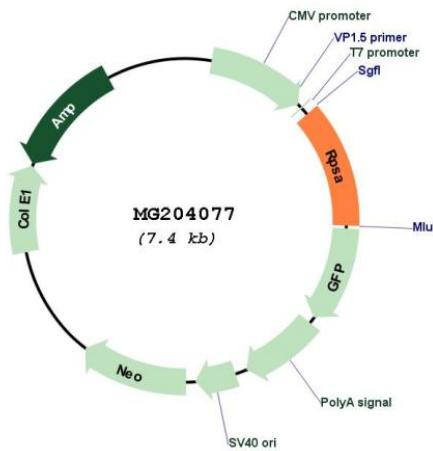
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC003829

ORF Size: 887 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:	BC003829 , AAH03829
RefSeq Size:	1054 bp
RefSeq ORF:	887 bp
Locus ID:	16785
Cytogenetics:	9 71.41 cM
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]