

Product datasheet for **MG227521**

Rs1 (NM_011302) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rs1 (NM_011302) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rs1
Synonyms:	Rs1h; tmgc1; Xlrs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227521 representing NM_011302 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACACAAGATTGAAGGCTTCTTCTGTTACTTCTCTTTGGCTATGAAGCCACATTGGGATTGTCAT
CGACAGAGGATGAGGGTGAGGACCCCTGGTACCAGAAAGCATGCAAGTGTGATTGCCAGGTAGGAGCCAA
TGCTCTGTGGTCTGCTGGAGCTACCTCCTTAGACTGTATTCCAGAATGCCATATCACAAAGCCCTGGGT
TTCGAGTCAGGGGAGGTACGCCAGATCAGATCACTTGTCCAACCCAGAGCAGTATGTGGGCTGGTATT
CCTCATGGACAGCAAACAAGGCCGACTCAACAGTCAAGGTTTTGGGTGTGCTTGGCTTTCCAAGTATCA
GGACAGCAGCCAGTGGTTACAGATAGATTTGAAGGAGATCAAGGTGATTCGCGGGATCCTGACCCAAGGA
CGCTGTGACATAGACGAGTGGGTGACCAAGTACAGTGTGCAATAGGACTGATGAGCGCCTGAAGTGA
TCTACTATAAGGATCAGACCCGAAACAATCGGGTCTTCTATGAAACTCAGACCGGAGTTCTACAGTTCA
GAATTACTCAGGCCCCCATCATTTCCCGCTTCATCCGACTGATCCCTCTAGGCTGGCATGTCCGAATT
GCCATCCGGATGGAGCTGCTTGAAGTGTGCCAGCAAGTGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227521 representing NM_011302
Red=Cloning site Green=Tags(s)

MPHKIEGFFLLLLFGYEATLGLSSTEDEGEDPWPYQKACKCDCQVGANALWSAGATSLDCIPECYPYHKPLG
 FESGEVTPDQITCSNPEQYVWYSSWTANKARLNSQGFCAWL SKYQDSSQWLQIDLKEIKVISGILTQG
 RCDIDEWYTKYSVQYRTDERLNIYYKDQTGNRRVYFGNSDRSSTVQNLRLPPIISRFRIRLIPLGWHVRI
 AIRMELLECAKCA

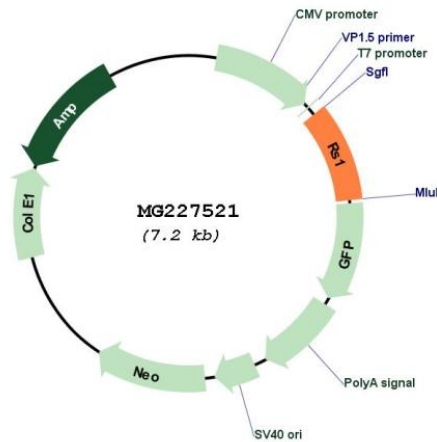
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011302

ORF Size: 672 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:	NM_011302.3 , NP_035432.3
RefSeq Size:	5855 bp
RefSeq ORF:	675 bp
Locus ID:	20147
UniProt ID:	Q9Z1L4
Cytogenetics:	X 73.95 cM
Gene Summary:	Binds negatively charged membrane lipids, such as phosphatidylserine and phosphoinositides (PubMed:17325137, PubMed:20677810). May play a role in cell-cell adhesion processes in the retina, via homomeric interaction between octamers present on the surface of two neighboring cells (By similarity). Required for normal structure and function of the retina (PubMed:11983912, PubMed:17325137).[UniProtKB/Swiss-Prot Function]