

## Product datasheet for **MR227521**

### Rs1 (NM\_011302) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rs1 (NM\_011302) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rs1  
**Synonyms:** Rs1h; tmgc1; Xlrs1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227521 representing NM\_011302  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACACAAGATTGAAGGCTTCTTCTGTTACTTCTCTTTGGCTATGAAGCCACATTGGGATTGTCAT  
CGACAGAGGATGAGGGTGAGGACCCCTGGTACCAGAAAGCATGCAAGTGTGATTGCCAGGTAGGAGCCAA  
TGCTCTGTGGTCTGCTGGAGCTACCTCCTTAGACTGTATTCCAGAATGCCATATCACAAAGCCCTGGGT  
TTCGAGTCAGGGGAGGTACGCCAGATCAGATCACTTGTCCAACCCAGAGCAGTATGTGGGCTGGTATT  
CCTCATGGACAGCAAACAAGGCCGACTCAACAGTCAAGGTTTTGGGTGTGCTTGGCTTTCCAAGTATCA  
GGACAGCAGCCAGTGGTTACAGATAGATTTGAAGGAGATCAAGGTGATTCGCGGGATCCTGACCCAAGGA  
CGCTGTGACATAGACGAGTGGGTGACCAAGTACAGTGTGAGTATAGGACTGATGAGCGCCTGAAGTGA  
TCTACTATAAGGATCAGACCCGAAACAATCGGGTCTTCTATGAAACTCAGACCGGAGTTCTACAGTTCA  
GAACTTACTCAGGCCCCCATCATTTCCCGCTTCATCCGACTGATCCCTCTAGGCTGGCATGTCCGAATT  
GCCATCCGGATGGAGCTGCTTGAGTGTGCCAGCAAGTGTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227521 representing NM\_011302  
Red=Cloning site Green=Tags(s)

MPHKIEGFFLLLLFGYEATLGLSSTEDEGEDPWWYQKACKCDCQVGANALWSAGATSLDCIPECYPYHKPLG  
 FESGEVTPDQITCSNPEQYVWYSSWTANKARLNSQGFCAWL SKYQDSSQWLQIDLKEIKVISGILTQG  
 RCDIDEWVTKYSVQYRTDERLNIYYKDQTGNRRVYFGNSDRSSTVQNLRRPPIISRIFIRLIPLGWHVRI  
 AIRMELLECAKCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9008\\_e10.zip](https://cdn.origene.com/chromatograms/mm9008_e10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:**

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

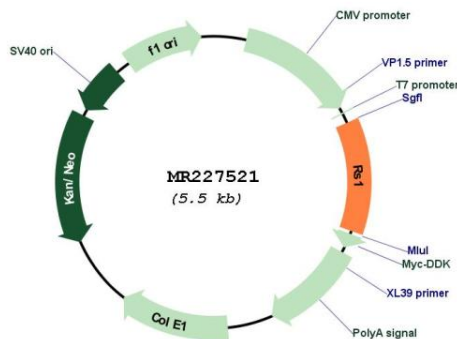
**UniProt ID:** [Q9Z1L4](#)

**Cytogenetics:** X 73.95 cM

**MW:** 26 kDa

**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]

### Product images:



Circular map for MR227521