

## Product datasheet for **MG214180**

### Gsg1l (NM\_001101488) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gsg1l (NM_001101488) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gsg1l
Synonyms:	AI852434; C230098I05Rik; g1l; G630023A01Rik; Gm637
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214180 representing NM_001101488 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGACGAGCCCGCGGCCGAGCGCTCCTGGCCGTGGCCTTGAACCTGCTGGCGCTGCTCTTCGCCA  
CCACCGCCTTCTCACCACGTAAGTGGTCCAGGGCACGCAACGGGTGCCAAGCCTGGCTGCGGCCAGGG  
CGGCGGCCCAACTGCCCAACTCGGGCGCCAACGCCACGGCCAACAGCACAGCCGCCCGTTCGCGCGG  
AGCCCGCGCGCGCCCTACAGCTGGGAGCGGGCGACGAGCGCTTCCAGCTGCGCCGTTCCACACTG  
GCATCTGGTACTCGTGTGAGGAAGAGCTCGGTGGCCCGGTGAGAAATGTCGAGCTTTCATTGACCTGGC  
TCCAGCGTCAGAGAAAGGGGTGCTGTGGCTGTCGGTGGTCTCTGAGGTGCTCTACATCCTTCTGCTGGT  
GTCGGCTTCAGTCTCATGTGTCTTGAGCTCGTCCACTCCAGCAGCGTCATAGACGGGCTGAAGCTCAATG  
CCTTTGCTGCGGTCTTACGGTCTCTCAGGTCTCCTGGGAATGGTCGCACACATGATGTACACACAGGT  
GTTCCAGGTCACCGTGAGCCTTGGTCTGAAGACTGGAGACCTCATTCTGGGACTATGGGTGGTCTTC  
TGCTTGGCCTGGGGTTCATTTACCTGCTGCATGGCGGCATCTGTCACTACACTCAACTCCTATACCAAGA  
CAGTCATTGAGTCCGGCATAAGCGAAGGTCTTTGAGCAAGGATACCGGGAGGAGCCGACGTTTCATAGA  
TCCTGAGGCCATCAAATACTTCCGGGAGAGGATTGAGAAGGGGGACGTGAGTGAAGAGGAAGACTTCCGC  
CTTGCCCGCCACGAGAGATACCCGACCCGGCACAGCCACACATGGGAGACTCCTGGCCACGGAGCT  
CAGCTCACGAGGCAGCAGAGCTAAACCGTCAGTCTGGTCTGGGCACTGGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG214180 representing NM\_001101488  
 Red=Cloning site Green=Tags(s)

MKTSRRGRALLAVALNLLALLFATTAFLTTYWCQGTQRVPKPGCGQGGGANCPSNGANATANSTAAPVAA  
 SPAGAPYSWEAGDERFQLRRFHTGIWYSCEEELGGPGEKCRSFIDLAPASEKGVLWLSVSEVLYILLLV  
 VGFSLMCLLHVHSSVIDGLKLNAAVFTVLSGLLGMVAHMMYTQVQVTVSLGPEDWRPHSWDYGWSF  
 CLAWSFTCCMAASVTTLNSYTKTVIEFRHKRKVFEQGYREEPTFIDPEAIKYFRERIEKGDVSEEDFR  
 LACRHERYPTRHQPHMGDSWPRSSAHEAAELNRQCWVLGHVW

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1628\\_g08.zip](https://cdn.origene.com/chromatograms/ja1628_g08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001101488

**ORF Size:** 966 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\\_001101488.1](#), [NP\\_001094958.1](#)

**RefSeq Size:** 3924 bp

**RefSeq ORF:** 969 bp

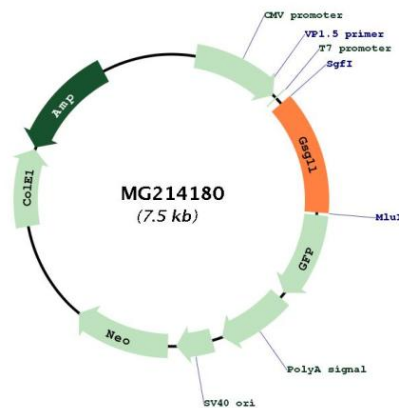
**Locus ID:** 269994

**UniProt ID:** [D3Z7H4](#)

**Cytogenetics:** 7 F3

**Gene Summary:** As a component of the inner core of AMPAR complexes, modifies AMPA receptor (AMPA) gating.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG214180