

## Product datasheet for **MG202273**

### Gstp1 (NM\_013541) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gstp1 (NM\_013541) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gstp1  
**Synonyms:** GstpiB  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202273 representing NM\_013541  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCACCATACACCATTGTCTACTTCCCAGTTCGAGGGCGGTGTGAGGCCATGCGAATGCTGCTGGCTG  
 ACCAGGGCCAGAGCTGGAAGGAGGAGGTGGTTACCATAGATACCTGGATGCAAGGCTTGCTCAAGCCCAC  
 TTGTCTGTATGGCAGCTCCCAAGTTTGAGGATGGAGACCTCACCTTTACCAATCTAATGCCATCTTG  
 AGACACCTTGGCGCTCTTTGGGCTTTATGGGAAAACCAGAGGGAGGCCGCCAGATGGATATGGTGA  
 ATGATGGGGTGGAGACCTTCGCGGCAAATATGTCACCCTCATCTACACCAACTATGAGAATGGTAAGAA  
 TGACTACGTGAAGGCCCTGCCTGGGCATCTGAAGCCTTTTGAGACCCTGCTGTCCAGAACCAGGGAGGC  
 AAAGCTTTCATCGTGGGTGACCAGATCTCCTTTGCCGATTACAACCTTGCTGGACCTGCTGCTGATCCACC  
 AAGTCTGGCCCCCTGGCTGCCTGGACAACCTCCCCTGCTCTCTGCCTATGTGGCTCGCCTCAGTGCCCCG  
 GCCAAGATCAAGGCCTTTCTGTCTCCCCGGAACATGTGAACCGTCCCATCAATGGCAATGGAAACAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202273 representing NM\_013541  
 Red=Cloning site Green=Tags(s)

MPPYTIVYFPVGRCEAMRMLLADQGSWKEEVVTIDTWMQGLLKPTCLYQQLPKFEDGDLTYQSNAIL  
 RHLGRSLGLYGKNQREAAQMDMVNDGVEDLRGKYVTLIYTNYENGKNDYVKALPGHLKPFETLLSQNQQG  
 KAFIVGDQISFADYNLLDLLLIHQVLAPGCLDNFPLLSAYVARLSARPKIKAFLLSPEHVNRPIINGNKQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_013541

**ORF Size:** 630 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\\_013541.1](#), [NP\\_038569.1](#)

**RefSeq Size:** 744 bp

**RefSeq ORF:** 633 bp

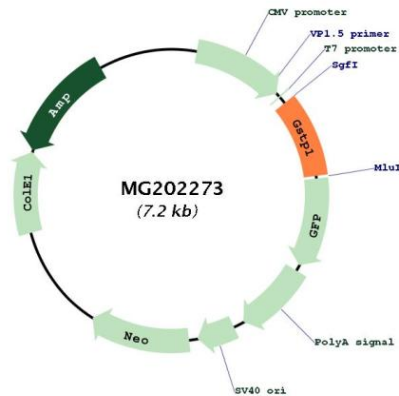
**Locus ID:** 14870

**UniProt ID:** [P19157](#)

**Cytogenetics:** 19 3.75 cM

**Gene Summary:**

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Can metabolize 1-chloro-2,4-dinitrobenzene. Regulates negatively CDK5 activity via p25/p35 translocation to prevent neurodegeneration (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for MG202273