

Product datasheet for **MG202254**

Gstp2 (NM_181796) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstp2 (NM_181796) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gstp2
Synonyms: Gst-3; Gst3; GSTpiA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202254 representing NM_181796
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGGTACACCATTGTCTACTTCCCAAGTCCAGGGCGGTGTGAGGCCATGCGCATGCTGCTGGCTG
 ACCAGGGCCAGAGCTGGAAGGAGGAGGTGGTTACCATAGATACCTGGATGCAAGGCTTGTCAAGCCAC
 TTGTCTGTATGGCAGCTCCCAAGTTTGAGGATGGAGACCTCACCTTTACCAATCTAATGCCATCTTG
 AGACACCTTGGCGCTCTTTGGGCTTTATGGGAAAACCAGAGGGAGGCCGCCAGGTGGATATGGTGA
 ATGATGGGGTGGAGACCTTCGCGGCAAATATGGCACCATGATCTACAGAACTATGAGAATGGTAAGAA
 TGACTACGTGAAGGCCCTGCCTGGGCATCTGAAGCCTTTTGAGACCCTGCTGTCCAGAACCAGGGAGGC
 AAAGCTTTCATCGTGGGTGACCAGATCTCCTTTGCCGATTACAACCTTGCTGGACCTGCTGCTGATCCACC
 AAGTCTGGCCCCCTGGCTGCCTGGACAACCTCCCCCTGCTCTCTGCCTATGTGGCTCGCCTCAGTGCCCCG
 GCCAAGATCAAGGCCTTTCTGTCTCCCCGGAACATGTGAACCGTCCCATCAATGGCAATGGAAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202254 representing NM_181796
 Red=Cloning site Green=Tags(s)

MPPYTIVYFSPGRCEAMRMLLADQQSWKEEVVTIDTWMQGLLKPTCLYQGLPKFEDGDLTYQSNAIL
 RHLGRSLGLYGKNQREAAQVDMVNDGVEDLRGKYGTMIYRNYENGNKYKALPGHLKPFETLLSQNQGG
 KAFIVGDQISFADYNLLDLLLIHQVLAPGCLDNFPLLSAYVARLSARPKIKAFLLSPEHVNRPIINGNKQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

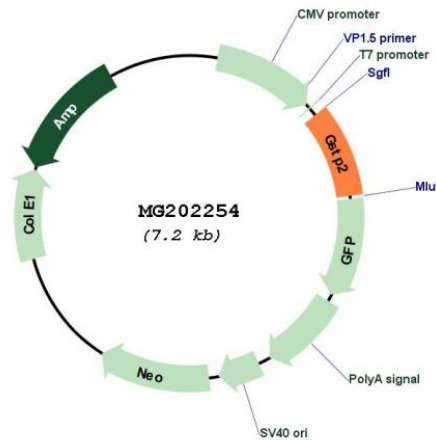


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Cloning Scheme:



Plasmid Map:



ACCN: NM_181796

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_181796.2](#), [NP_861461.1](#)

RefSeq Size: 785 bp

RefSeq ORF: 633 bp

Locus ID: 14869

UniProt ID: [P46425](#)

Cytogenetics: 19 3.75 cM

Gene Summary: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Cannot metabolize 1-chloro-2,4-dinitrobenzene.[UniProtKB/Swiss-Prot Function]