

Product datasheet for **RG202130**

GSTA4 (NM_001512) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GSTA4 (NM_001512) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GSTA4 |
| Synonyms: | GSTA4-4; GTA4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG202130 representing NM_001512 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAAGGCCAAGCTCCACTATCCCAACGGAAGAGGCCGGATGGAGTCCGTGAGATGGGTTTTAG
CTGCCCGGAGTCGAGTTTGATGAAGAATTTCTGAAACAAAAGAAGCAGTTGTACAAGTTCAGGATGG
TAACCACTGCTGTTCCAACAAGTGCCCATGGTTGAAATTGACGGGATGAAGTTGGTACAGACCCGAAGC
ATTCTCCACTACATAGCAGACAAGCACAATCTCTTTGGCAAGAACCTCAAGGAGAGAACCCTGATTGACA
TGTACGTGGAGGGGACTGGATCTGCTGGAAGTCTTATCATGCATCCTTTCTTAAAACCAGATGATCA
GCAAAAGGAAGTGGTTAACATGGCCAGAAAGGCTATAATTAGATACTTTCTGTGTTGAAAAGATTTTA
AGGGGTCACGGACAAAGCTTTCTTGTGGTAATCAGCTGAGCCTTGACAGATGTGATTTTACTCCAACCA
TTTTAGCTCTAGAAGAGAAAATTCCTAATATCCTGTCTGCATTTCTTTCTCCAGGAATACACAGTGAA
ACTAAGTAATATCCCTACAATTAAGAGATTCCTTGAACCTGGCAGCAAGAAGAAGCCTCCCCCTGATGAA
ATTTATGTGAGAACCGTCTACAACATCTTTAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202130 representing NM_001512
 Red=Cloning site Green=Tags(s)

MAARPKLHYPNGRGRMESVRWVLAAGVEFDEEFLETKEQLYKLDQGNHLLFQQVPMVEIDGMKLVQTRS
 ILHYIADKHNLFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKPDQDQKEVVNMAQKAIIRYFPVFEKIL
 RGHGQSFLVGNQLSLADVILLQITLALALEEKIPNILSAFPFLQEYTVKLSNIPTIKRFLPEGSKKKPPPDE
 IYVRTVYNIFRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001512

ORF Size: 666 bp

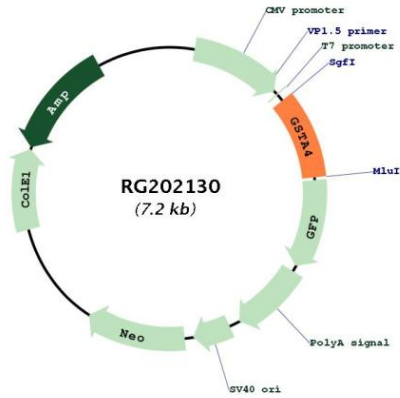
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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| 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_001512.4 |
| RefSeq Size: | 1317 bp |
| RefSeq ORF: | 669 bp |
| Locus ID: | 2941 |
| UniProt ID: | O15217 |
| Cytogenetics: | 6p12.2 |
| Domains: | GST_N, GST_C |
| Protein Pathways: | Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450 |
| Gene Summary: | <p>Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq, Jul 2008]</p> |

Product images:



Circular map for RG202130