

Product datasheet for **MG207958**

Gpt (NM_182805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpt (NM_182805) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpt
Synonyms:	ALT; ALT1; Gpt-1; Gpt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207958 representing NM_182805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCACAAGGAATGACCGGATCCAGGCTTCAAGGAATGGACTGAAGGGGAAGGTGCTAACTCTGG
 ATACCATGAACCCATGTGTGCGGAGGGTGGAGTATGCAGTCCGAGGCCCATCGTGCAACGTGCCTTGGA
 GCTGGAGCAGGAGCTGCGCCAGGGTGTGAAGAAGCCTTTTACTGAGGTTATCCGTGCCAATATTGGGGAT
 GCACAAGCCATGGGGCAGAGACCCATCACCTTCTTCCGCCAGGTCTGGCCCTCTGTGTCTACCCCAATC
 TTCTGAGCAGTCCGGACTCCCAGAGGATGCCAAGAGAAGGGCAGAACGCATCTTGCAGGCATGCGGGGG
 CCACAGCTGGGTGCCTATAGCATTAGCTCTGGAATCCAGCCGATTGGGAGGATGTGGCGCAATATATT
 GAGAGGAGAGACGGAGGCATCCCTGCAGACCCGAACAACATATTTCTGTCCACAGGGGCCAGCGATGCCA
 TCGTGACCATGCTCAAGCTGCTGGTAGCCGGCAGGGCCGTGCGGAACCGGTGACTCATTCCCATTCC
 TCAGTACCCACTGTACTCAGCTGCGCTGGCTGAGCTGGACGCCGTGCAAGTGGACTACTCTGGACGAA
 GAGCGCGCTGGGCTCTTGACATCGCTGAGCTGCGGCCGCTCTGTGCCAGGCAGTGACCGCTGCTGCC
 CTCGAGTACTATGCGTCAACCCCGCAACCCACGGGGCAGGTGCAGACCCGTGAATGCATCGAGGC
 CGTAATCCGCTTTGCTTTCGAAGAGGGACTCTTCTGATGGCTGATGAGGTATACCAAGACAATGTATAT
 GCCGAGGGCTCTCAGTCCATTCATTCAAGAAGGTGCTCACGGAGATGGGGCCACCATATGCCACGCAGC
 AGGAGCTCGCGTCTTCCACTCAGTCTCTAAGGGCTACATGGGCGAGTGGGGTTTCGTGGTGGCTATGT
 GGAAGTGGTAAACATGGATGCCGAGGTGCAGAAACAGATGGCGAAACTGATGAGCGTGGCGTTGTGTCCA
 CCAGTCCCGGGCCAGGCTTTGATGGGCATGGTGGTCACTGCACTGCAAGTAACTAACTCAGGAGCAGTCTT
 AGTTTCAAGCAGAGAGGAGGAGGTGCTGGCTGAACTGGCAGCCAAAGGCTAACTCAGGAGCAGTCTT
 CAACGAGGCCCGGGATCCGCTGCAACCCGGTGCAGGGCGCTATGTATTCCTTCCCTCAAATTCAGCTG
 CCTTTGAAAGCAGTGCAGCGTGCAGGACCTGGGCTGGCCCTGACATGTTCTTCTGTCTGTGCCTCC
 TGAAGAGACTGGCATCTGCGTTGTGCCTGGGAGTGGCTTTGGGCAGCAGGAGGGCACCTATCATTTCCG
 GATGACCATCTGCCCCCATGGAGAACTGCGGGTGTGCTGGAGAACTGAGGCACCTCCATGCTAA
 TTCACTCATGAGTACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207958 representing NM_182805
 Red=Cloning site Green=Tags(s)

MASQRNDRIQASRNGLKGVLTLDTMNPCVRRVEYAVRGPVQRALELEQELRQGVKKPFTEVIRANIGD
 AQAMGQRPITFFRQVLALCVYPNLLSSPDFPEDAKRRAERILQACGGHSLGAYSISGGIPIREDVAQYI
 ERRDGGIPADPNIFLSTGASDAIVTMLKLLVAGEGRARTGVLIPQYPLYSAALAEQELDAVQVDYYLDE
 ERAWALDIAELRRALCQARDRCCPRVLCVINPGNPTGQVQTRECEAVIRFAFEEGLFLMADEVYQDNVY
 AEGSQFHSEKVLTEMGPPYATQQELASFHSVSKGYMGECEGFRGGYVEVVMDAEVQKQMAKLMVRLCP
 PVPQGALMGMVSPPTPSEPSFKQFQAERQEVLAELAAKAKLTEQVFNEAPGIRCNPVQAMYSFPQIQL
 PLKAVQRAQDLGLAPDMFFCLLLEETGICVVPVGSFGGQEGTYHFRMTILPPMEKLRVLEKLRHFHAK
 FTHEYS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_182805

ORF Size: 1488 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_182805.2](#)

RefSeq Size: 1784 bp

RefSeq ORF: 1491 bp

Locus ID: 76282

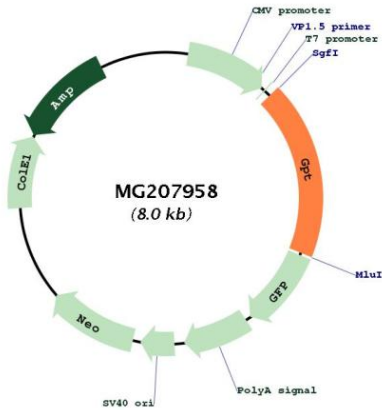
UniProt ID: [Q8QZR5](#)

Cytogenetics: 15 36.28 cM

Gene Summary:

Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Participates in cellular nitrogen metabolism and also in liver gluconeogenesis starting with precursors transported from skeletal muscles (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207958