

Product datasheet for **MR207958**

Gpt (NM_182805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpt (NM_182805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpt
Synonyms:	ALT; ALT1; Gpt-1; Gpt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207958 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCACAAGGAATGACCGGATCCAGGCTTCAAGGAATGGACTGAAGGGGAAGGTGCTAACTCTGG
 ATACCATGAACCCATGTGTGCGGAGGGTGGAGTATGCAGTCCGAGGCCCATCGTGCAACGTGCCTTGGA
 GCTGGAGCAGGAGCTGCGCCAGGGTGTGAAGAAGCCTTTTACTGAGGTTATCCGTGCCAATATTGGGGAT
 GCACAAGCCATGGGGCAGAGACCCATCACCTTCTTCCGCCAGGTCTGGCCCTCTGTGTCTACCCCAATC
 TTCTGAGCAGTCCGGACTCCCAGAGGATGCCAAGAGAAGGGCAGAACGCATCTTGCAGGCATGCGGGGG
 CCACAGCCTGGGTGCCTATAGCATTAGCTCTGGAATCCAGCCGATTGGGAGGATGTGGCGCAATATATT
 GAGAGGAGAGACGGAGGCATCCCTGCAGACCCGAACAACATATTTCTGTCCACAGGGGCCAGCGATGCCA
 TCGTGACCATGCTCAAGCTGCTGGTAGCCGGCAGGGCCGTGCGCGAACCAGGTGACTCATTCCCATTCC
 TCAGTACCCACTGTACTCAGCTGCGCTGGCTGAGCTGGACGCCGTGCAAGTGGACTACTACCTGGACGAA
 GAGCGCGCTGGGCTCTTGACATCGCTGAGCTGCGGCGCGCTCTGTGCCAGGCAGTGACCGCTGCTGCC
 CTCGAGTACTATGCGTCATCAACCCCGCAACCCACGGGGCAGGTGCAGACCCGTGAATGCATCGAGGC
 CGTAATCCGCTTTGCTTTGGAAGAGGGACTCTTCTGATGGCTGATGAGGTATACCAAGACAATGTATAT
 GCCGAGGGCTCTCAGTCCATTCATTCAAGAAGGTGCTCACGGAGATGGGGCCACCATATGCCACGCAGC
 AGGAGCTCGCGTCTTCCACTCAGTCTCTAAGGGCTACATGGGCGAGTGGGGTTTCGTGGTGGCTATGT
 GGAAGTGGTAAACATGGATGCCGAGGTGCAGAAACAGATGGCGAAACTGATGAGCGTGGCGTTGTGTCCA
 CCAGTCCGGGCCAGGCTTTGATGGGCATGGTGGTCACTGCACTGCAAGCCCAACCCCTCGGAGCCGCTTCAAGC
 AGTTTCAAGCAGAGAGGCAGGAGGTGCTGGCTGAACTGGCAGCCAAAGCTAAACTCACGGACAGTCTT
 CAACGAGGCCCGGGATCCGCTGCAACCCGGTGCAGGGCGCTATGTATTCCCTCCCTCAAATTCAGCTG
 CCTTTGAAAGCAGTGCAGCGTGCAGGACCTGGGCTGGCCCTGACATGTTCTTCTGTCTGTGCTCC
 TGGAAAGACTGGCATCTGCGTTGTGCCTGGGAGTGGCTTTGGGCAGCAGGAGGGCACCTATCATTTCCG
 GATGACCATCTGCCCCCATGGAGAACTGCGGGTGTGCTGGAGAACTGAGGCACCTCCATGCTAA
 TTCACTCATGAGTACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207958 protein sequence
 Red=Cloning site Green=Tags(s)

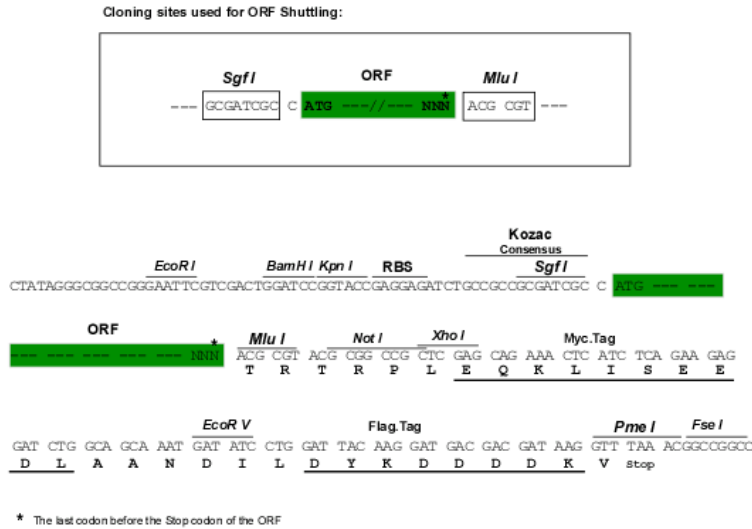
MASQRNDRIQASRNGLKGVLTLDTMNPCVRRVEYAVRGPVQRALELEQELRQGVKKPFTEVIRANIGD
 AQAMGQRPITFFRQVLALCVYPNLLSSPDFPEDAKRRAERILQACGGHSLGAYSISSGIQPIREDVAQYI
 ERRDGGIPADPNIFLSTGASDAIVTMLKLLVAGEGRARTGVLIPQYPLYSAALAEQVQVDDYLLDE
 ERAWALDIAELRRALCQARDRCCPRVLCVINPGNPTGQVQTRIEAVIRFAFEEGLFLMADEVYQDNVY
 AEGSQFHFKKVLTEMGPPYATQQELASFHVSXKGYMGECEGFRGGYVEVNMDAEVQKQMAKLMVRLCP
 PVPQALMGMVSPPTPSEPSFKQFQAERQEVLAELAAKAKLTEQVFNEAPGIRCNPVQAMYSFPQIQ
 PLKAVQRAQDLGLAPDMFFCLCLEETGICVVPVGSFGGQEGTYHFRMTILPPMEKLRVLLLEKLRHFHAK
 FTHEYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_182805

ORF Size: 1491 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: 1783 bp

RefSeq ORF: 1491 bp

Locus ID: 76282

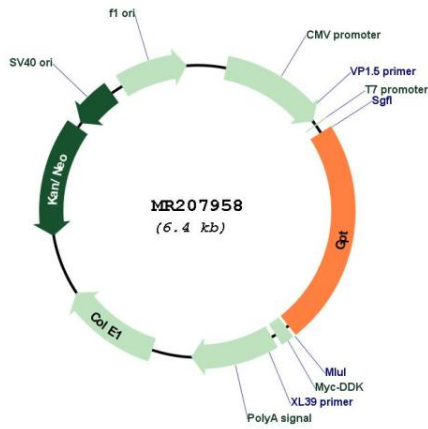
UniProt ID: [Q8QZR5](#)

Cytogenetics: 15 36.28 cM

MW: 55.1 kDa

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 MR207958