

Product datasheet for **MR208364**

Gpt2 (NM_173866) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpt2 (NM_173866) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpt2
Synonyms:	4631422C05Rik; ALT2; AU014768; AU041193; C87201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208364 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACGGGGCAGCGGTGCTGGTGCGGGGGCTCCTGCCCCCGCGCCTCGGGCCCTGGGGCCGTAGTC
 ACAGCAGCGCTGCAGCCGAAGCCTCGGGCGCGCTCAAGGTGCGACCGGAGCGCAGCCCTCGAGACCGCAT
 CCTCACCCCTGGAGTCCATGAACCCGAGGTGAAGGCGGTGGAGTACGCTGTGCGGGGACCCATCGTGCTC
 AAAGCCGGCGAGATCGAGATGGAGCTGCAGCGGGTATCAAAAAACCATTCACTGAGGTAATCCGAGCCA
 ACATTGGGGATGCCATGCTATGGGCCAGCAGCCAATCACCTTCTCCGTGAGGTGATGGCACTCTGCAC
 CTACCCAAACCTACTAACAGCCCCAGCTTCCAGAAGACGCTAAGAAACGAGCGCGGGGATCCTGCAG
 GCTTGTGGTGAAACAGCTTGGGATCTTACAGTGTAGCCAGGGCGTTAACTGTATCCGTGAAGATGTGG
 CAGCCTTTATCACCAGGAGAGATGGTGTGCTGCAGACCCAGACAACATTTACCTGACTACTGGAGCTAG
 CGACGGTATTTCTACAATCCTGAACTCCTGGTCTCCGGTGGTGGCAAGTACGGACCGGGTATGATT
 CCCATCCCCAGTATCCCTTGTACTCCGCGGTATCTCCGAGCTCGACCGGTGCAGGTCAACTACTATC
 TGGATGAAGAACTGCTGGGCTTTGAATGTGGACGAGCTCCGGCGGGCATTGTGGCAAGCCAAAGACCA
 CTGTGACCCTAAAGTTCTCTGCATTATCAACCCCGAAACCCACAGGCCAGGTACAAAGCAGAAAGTGC
 ATAGAAGATGTGATTCACTTTCCTGGGAAGAGAAGCTTTTTCTCCTGGCTGATGAGGTGTACCAGGACA
 ACGTGTACTCTCCAGACTGCAGATTCCACTCCTTAAGAAAGTGTCTTACCAGATGGGGCACGAGTACTC
 CAGCAACGTGGAGCTCGCTCCTTCCACTCCACCTCAAGGGTACATGGGCGAGTGTGGCTACAGAGGG
 GGCTACATGGAGGTGATCAATTTGCACCCCGAGATCAAAGGCCAGCTGGTGAAGTACTCTCGTTCCGCC
 TCTGTCCGCCAGTGTGAGCAGCGCCGATGGACATTGTGTGAATCCACGAAACAGGAGAGGAGTGC
 CTTTGAGCAATTACGAGGGAAAAAGAATTCGTCTTGGTAACTGGCCAAAAAGCAAAGCTGACAGAA
 GATCTGTTTAAACCAAGTCCAGGGATCCAGTGCACCCCTTGCAAGGAGCTATGTATGCGTTCCTCGGA
 TTCTCATCCCTGCCAAGGCCGTGGAGGCAGCTCAGTCCCATAAAAAGGCTCCAGACATGTTCTACTGCAT
 GAAGCTCCTGGAGGAGACTGGCATCTGTGTCGTGCCTGGCAGTGGCTTTGGGCAGCGAGAAGGCCTTAC
 CACTTCAGAAATGACCATTCTCCCTCCGGTGGATAAACTGAAGACCGTGTCCACAAGGTGAAAGACTTTC
 ACCTGAAGTTCCTGGAGCAGTACTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208364 protein sequence
 Red=Cloning site Green=Tags(s)

MQRAAVLVRRGSCPRASGPWGRSHSSAAAEEASAALKVVRPERSPRDRILTLESMNPQVKAVEYAVRGPVIL
 KAGEIEMELQRGIKPPFTEVIRANIGDAHMQQPITFLRQVMALCTYPNLLNSPSFPEDAKKRARRILQ
 ACGGNSLGSYSASQGVNCIREDVAAFITRRDGVPAADPNIIYLTTGASDGI STILKLLVSGGKSR TGVM I
 PIPQYPLYSAVISSELDVAVQVNYLDEENCWALNVDELRRALWQAKDHCDPKVLCIINPGNPTGQVQSRKC
 IEDVIHF AWEKLFLLADEVYQDNVYSPDCRFHSFKKVL YQMGHEYSSNVELASFHSTSKGYMGECGYRG
 GYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVVNPPEPGEESFEQFSREKEFVLGNLAKKAKLTE
 DLFNQVPGIQCNP LQGAMYAFPRILIPAKAVEAAQSHKMAPDMFYCMKLLLEETGICVVP GSGFGQREGTY
 HFRMTILPPVDK LKTVLHKVKDFHLKFLEQYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_173866

ORF Size: 1569 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_173866.1](#), [NM_173866.2](#), [NM_173866.3](#), [NP_776291.1](#)

RefSeq Size: 3596 bp

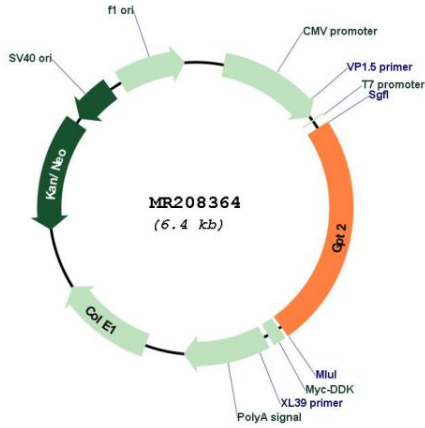
RefSeq ORF: 1569 bp

Locus ID: 108682

UniProt ID: [Q8BGT5](#)

Cytogenetics: 8 C3
MW: 58 kDa
Gene Summary: Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208364