

Product datasheet for **MG208364**

Gpt2 (NM_173866) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpt2 (NM_173866) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpt2
Synonyms:	4631422C05Rik; ALT2; AU014768; AU041193; C87201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208364 representing NM_173866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACGGGGCAGCGGTGCTGGTGCGGGGGCTCCTGCCCCCGGCCTCGGGCCCTGGGGCCGTAGTC
 ACAGCAGCGCTGCAGCCGAAGCCTCGGGCGCGCTCAAGGTGCGACCGGAGCGCAGCCCTCGAGACCGCAT
 CCTCACCCCTGGAGTCCATGAACCCGAGGTGAAGGCGGTGGAGTACGCTGTGCGGGGACCATCGTGCTC
 AAAGCCGGCGAGATCGAGATGGAGCTGCAGCGGGGTATCAAAAAACCATTCACTGAGGTAATCCGAGCCA
 ACATTGGGGATGCCATGCTATGGGCCAGCAGCCAATCACCTTCTCCGTGAGGTGATGGCACTCTGCAC
 CTACCCAAACCTACTAACAGCCCCAGCTTCCAGAAGACGCTAAGAAACGAGCGCGGGGATCCTGCAG
 GCTTGTGGTGAAACAGCTTGGGATCTTACAGTGTAGCCAGGGCGTAACTGTATCCGTGAAGATGTGG
 CAGCCTTTATCACCAGGAGAGATGGTGTGCTGCAGACCCAGACAACATTTACCTGACTACTGGAGCTAG
 CGACGGTATTTCTACAATCCTGAACTCCTGGTCTCCGGTGGTGGCAAGTACGGACCGGGTATGATT
 CCCATCCCCAGTATCCCTTGTACTCCGCGGTATCTCCGAGCTCGACCGGTGCAGGTCAACTACTATC
 TGGATGAAGAACTGCTGGGCTTTGAATGTGGACGAGCTCCGGCGGGCATTGTGGCAAGCCAAAGACCA
 CTGTGACCCTAAAGTTCTCTGCATTATCAACCCCGAAACCCACAGGCCAGGTACAAAGCAGAAAGTGC
 ATAGAAGATGTGATTCACTTTGCCTGGGAAGAGAAGCTTTTTCTCCTGGCTGATGAGGTGTACCAGGACA
 ACGTGTACTCTCCAGACTGCAGATTCCACTCCTTAAGAAAGTGTCTTACCAGATGGGGCAGGACTACTC
 CAGCAACGTGGAGCTCGCTCCTTCCACTCCACCTCAAGGGTACATGGGCGAGTGTGGCTACAGAGGG
 GGCTACATGGAGGTGATCAATTTGCACCCCGAGATCAAAGGCCAGCTGGTGAAGCTACTCTCGTTCCGC
 TCTTCCGCCAGTGTGAGGACGGCCGCATGGACATTGTGTGAATCCACGAAACAGGAGAGGAGTGC
 CTTTGAGCAATTCAGCAGGGAAAAAGAATTCGCTTGGTAACTTGCCAAAAAGCAAAAGCTGACAGAA
 GATCTGTTAAACCAAGTCCAGGGATCCAGTGCACCCCTTGCAAGGAGCTATGTATGCGTTCCTCGGA
 TTCTCATCCCTGCCAAGGCCGTGGAGGCAGCTCAGTCCCAATAAAATGGCTCCAGACATGTTCTACTGCAT
 GAAGCTCCTGGAGGAGACTGGCATCTGTGTCGTGCCTGGCAGTGGCTTTGGGCAGCGAGAAGGCCTTAC
 CACTTCAGAAATGACCATTCTCCCTCCGGTGGATAAACTGAAGACCGTGTCCACAAGGTGAAAGACTTTC
 ACCTGAAGTTCCTGGAGCAGTACTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208364 representing NM_173866
 Red=Cloning site Green=Tags(s)

MQRAAVLVRRGSCPRASGPWGRSHSSAAAEASAALKVRPERSPRDRILTLESMNPQVKAVEYAVRGPVIL
 KAGEIEMELQRGIKPPFTEVIRANIGDAHMGQPITFLRQVMALCTYPNLLNSPSFPEDAKKRARRILQ
 ACGGNSLGSYSASQGVNCIREDVAAFITRRDGVPAADPNIYLTTGASDGIKLLVSGGKSRGTGVM
 PIPQYPLYSAVISSELDVAVQVNYLDEENCWALNVDELRRALWQAKDHCDPKVLCIINPGNPTGQVQSRK
 IEDVIHFVWEEKLFLLADEVYQDNVYSPDCRFHFKKVLQMGHEYSSNVELASFHSTSKGYMGECGYR
 GYMEVINLHPEIKGQLVKLLSVRLCPPVSGQAAMDIVVNPPEPGEESFEQFSREKEFVLGNLAKKAKLTE
 DLFNQVPGIQCNPQGAMYAFPRILIPAKAVEAAQSHKMAPDMFYCMKLLLEETGICVVPVSGFGQREGTY
 HFRMTILPPVDKLTVLHKVKDFHLKFLEQYS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_173866
ORF Size:	1566 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:	<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_173866.1 , NP_776291.1
RefSeq Size:	3597 bp
RefSeq ORF:	1569 bp
Locus ID:	108682
UniProt ID:	Q8BGT5
Cytogenetics:	8 C3
Gene Summary:	Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate.[UniProtKB/Swiss-Prot Function]