

Product datasheet for **RR205633**

Got1 (NM_012571) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Got1 (NM_012571) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Got1
Synonyms: ASAT; Aspat; cAspAT; cCAT; Gaspat
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205633 representing NM_012571
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCCTCCATCATTCTTTGCCAGGTTCCACAGGCCCGCCGTTCTGGTCTTTAAGCTCATTGCGG
 ACTTCCGGGATGATCCCATCCCAGGTTAACCTCGGCGTGGGAGCGTACCGCACAGATGACTCTCA
 GCCCTGGGTTTTGCCAGTAGTGAGGAAGGTCGAACAGAAGATTGCTAACGACCACAGTCTCAACCAGAG
 TACTTGCCCATCTGGGCTGGCGGAGTCCGGAGCTGTGCTTCTCAGCTAGTACTTGGGACAACAGCC
 CAGCTCTCAGGGAGAATCGGGTTGGGGTGTGCAGTCTTTGGGAGGGACCGGTGCACTTCGAATTGGAGC
 TGACTTCTTAGGGCGATGGTACAATGGCACAGACAACAAGAACACGCCCTCTACGTATCATCGCCGACC
 TGGGAGAACCATAATGGCGTGTCTTCTGCCGCTGGTTTTAAAGACATTCCGGTCTATCGCTACTGGGATG
 CAGAGAAGAGAGGACTTGATCTCCAGGGTTTCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATCTT
 TGTCTCCACGCCGTGTGCACACAACCAACGGGGACCGACCAACTGAAGAGGAGTGAAGCAGATCGCC
 GCCGTATGAAGCGCCGTTTTCTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTTCATCTGGAGACC
 TAGAGAAAGATGCCTGGGCTATTTCGCTATTTGTGTCTGAAGGCTTCGAGCTCTTCTGCCAGTCCTT
 CTCCAAGAACTTCGGGCTCTACAATGAGAGAGTGGGAACTCTGACCGTGGTCGGAAAAGAGCATGACAGC
 GTCCTGCGGGTCTTTCCAGATGGAGAAGATTGTACGAATCACCTGGTCCAATCCCCCTGCCAGGGAG
 CTCGGATCGTGGCCACCACCCTCTCAACCCTGAGCTCTTTAAGGAGTGGAAAGGAAACGTGAAGACAAT
 GGCTGACCGGATTCTGACCATGAGATCCGAACCTCAGGGCGCGACTAGAAGCTCTCAAGACTCCCGGGACT
 TGGTCTCACATCACTGAGCAGATTGGAATGTTGAGCTTTACTGGGTTGAACCCCAAGCAGGTCGAGTATT
 TGGTCAACGAGAAGCACATCTATCTGATGCCGAGCGGTTCGGATCAACATGTGCGGCTTGACCACCAAGAA
 CCTAGATTACGTGGCTACCTCCATCAATGAAGCTGTACCAAATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205633 representing NM_012571
 Red=Cloning site Green=Tags(s)

MAPPSFFAQVPQAPPVLVFKLIADFRDDPDPKVNLVGVGAYRTDSDQPWVLPVVRKVEQKIANDHSLNHE
 YLPILGLAEFRSCASQLVLGDNSPALRENRVGGVQSLGGTGALRIGADFLGRWYNGTDNKNTPVYVSSPT
 WENHNGVFSAAGFKDIRSYRYWDAEKRLDLQGFNLNLENAPEFSIFVLHACAHNPTGTDPTTEEWKQIA
 AVMKRRFLFPFFDSAYQGFASGDLEKDAWAIKYFVSEGFELFCAQSF SKNFGLYNERVGNLTVVGKEHDS
 VLRVLSQMEKIVRITWSNPPAQGARIVATTL SNPELFKEWKGNVKT MADRILTRSELRARLEALKTPGT
 WSHITEQIGMFSFTGLNPKQVEYLVNEKHIIYLMPSGRINMCGLTTKNLDYVATSINEAVTKFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

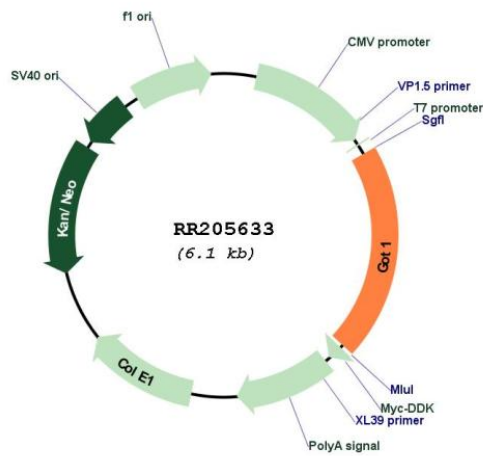
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012571

ORF Size:	1239 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_012571.2 , NP_036703.2
RefSeq Size:	1998 bp
RefSeq ORF:	1242 bp
Locus ID:	24401
UniProt ID:	P13221
Cytogenetics:	1q54
MW:	46.4 kDa
Gene Summary:	cytosolic aspartate aminotransferase isozyme; enzyme activity in liver and kidney increase in response to glucocorticoids [RGD, Feb 2006]