

Product datasheet for **RR204071**

Hprt1 (NM_012583) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hprt1 (NM_012583) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hprt1
Synonyms:	Hgpptase; Hprt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204071 representing NM_012583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGACCCTCAGTCCCAGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTAGATTTATTTTGCA
TACCTAATCATTATGCTGAAGATTTGGAAAAGGTGTTTATTCCTCATGGACTGATTATGGACAGGACTGA
AAGACTTGCTCGAGATGTCATGAAGGAGATGGGAGGCCATCACATTGTGGCCCTCTGTGTGCTGAAGGGG
GGCTATAAGTTCTTTGCTGACCTGCTGGATTACATTAAGCGCTGAATAGAAATAGTGATAGGTCCATTC
CTATGACTGTAGATTTTATCAGACTGAAGAGCTACTGTAATGACCAGTCAACGGGGACATAAAAAGTTAT
TGGTGGAGATGATCTCTCAACTTAACTGGAAAGAACGCTCTTGATTGTTGAAGATATAATTGACTGGT
AAAACAATGCAGACTTTGCTTTCCTTGGTCAAGCAGTACAGCCCCAAAATGGTTAAGGTTGCAAGCTTGC
TGGTGGAAAGGACCTCTCGAAGTGTGGATACAGGCCAGACTTTGTTGGATTTGAAATCCAGACAAGTT
TGTTGTTGGATATGCCCTTGACTATAATGAGCACTTCAGGGATTTGAATCATGTTTGTGTCATCAGCGAA
AGTGAAAAGCCAAGTACAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204071 representing NM_012583
 Red=Cloning site Green=Tags(s)

MSTLSPSVVISDDDEPGYDLDFLCIPNHYAEDLEKVFIPHGLIMDRTERLARVDMKEMGGHHIVALCVLKG
 GYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVIIGDDLSTLTGKNVLIVEDIIDTG
 KTMQTLTSLVKQYSPKMKVASLLVKRTSRVGYRPFVGFVIPDKFVVGALDYNEHFRDLNHVCVISE
 SGKAKYKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

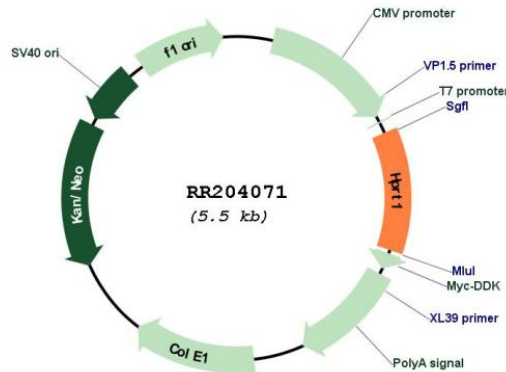
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012583

ORF Size: 654 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_012583.2 , NP_036715.1
RefSeq Size:	1260 bp
RefSeq ORF:	657 bp
Locus ID:	24465
UniProt ID:	P27605
Cytogenetics:	Xq37
MW:	24.5 kDa
Gene Summary:	catalyzes the conversion of IMP and diphosphate to hypoxanthine and 5-phospho-alpha-D-ribose 1-diphosphate [RGD, Feb 2006]