

## **Product datasheet for RC200462**

## HPRT (HPRT1) (NM 000194) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: HPRT (HPRT1) (NM\_000194) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: HPRT

Synonyms: HGPRT; HPRT

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC200462 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200462 protein sequence

Red=Cloning site Green=Tags(s)

MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKG GYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTG KTMQTLLSLVRQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISE TGKAKYKA

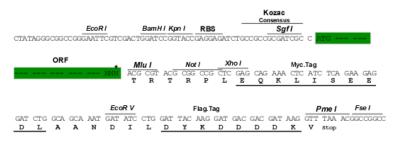
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6034">https://cdn.origene.com/chromatograms/mk6034</a> a01.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_000194

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:

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 000194.3</u>

RefSeq Size: 1435 bp
RefSeq ORF: 657 bp
Locus ID: 3251
UniProt ID: P00492

Cytogenetics: Xq26.2-q26.3

Domains: Pribosyltran

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

**MW:** 24.6 kDa

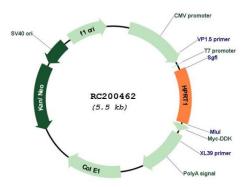
**Gene Summary:** The protein encoded by this gene is a transferase, which catalyzes conversion of

hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Lesch-Nyhan syndrome or gout.[provided

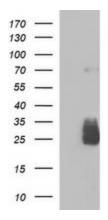
by RefSeq, Jun 2009]



## **Product images:**

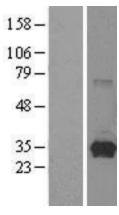


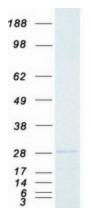
Circular map for RC200462



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HPRT1 (Cat# RC200462, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HPRT1(Cat# [TA506954]). Positive lysates [LY400070] (100ug) and [LC400070] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY400070]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200462 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified HPRT1 protein (Cat# [TP300462]). The protein was produced from HEK293T cells transfected with HPRT1 cDNA clone (Cat# RC200462) using MegaTran 2.0 (Cat# [TT210002]).