

Product datasheet for **RG200462**

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:	TurboGFP
Symbol:	HPRT
Synonyms:	HGPRT; HPRT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200462 representing NM_000194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCCGACGCCCTGGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTTGATTTATTTTGCATACCTAATCATTATGCTGAGGATTTGGAAAGGGTGTATTTCCTCATGGACTAATTATGGACAGGACTGACGTCTTGCTCGAGATGTGATGAAGGAGATGGGAGGCCATCACATTGTAGCCCTCTGTGTGCTCAAGGGGGCTATAAATTTCTTGCTGACCTGCTGGATTACATCAAAGCACTGAATAGAAATAGTGATAGATCCATTCATGACTGTAGATTTTATCAGACTGAAGAGCTATTGTAATGACCAGTCAACAGGGGACATAAAAAGTAATGGTGGAGATGATCTCTCAACTTAACTGGAAAGAATGTCTTGATTGTGGAAGATATAATTGACTGCGCAAAACAATGCAGACTTTGCTTTCCTTGGTCAGGCAGTATAATCCAAGATGGTCAAGGTCGCAAGCTTGTGGTGGAAAGGACCCACGAAGTGTGGATATAAGCCAGACTTTGTTGGATTTGAAATCCAGACAAGTTGTTGTAGGATATGCCCTTGACTATAATGAATACTTCAGGGATTGAATCATGTTTGTGTCATTAGTGAACTGGAAAAGCAAATACAAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200462 representing NM_000194
 Red=Cloning site Green=Tags(s)

MATRSPGVVISDDEPGYDLDFCIPNHYAEDLERVFI PHGLIMDRTERLARDVMKEMGGHHIVALCVLKG
 GYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVI GGDDLSTLTGKNVLIVEDIIDTG
 KTMQTLLSLVRQYNPKMVKVASLLVKRTPRSVGYKPDFVGF EIPDKFVVG YALDYNEYFRDLNHVCVISE
 TGKAKYKA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_000194.3](#)

RefSeq Size: 1331 bp

RefSeq ORF: 657 bp

Locus ID: 3251

UniProt ID: [P00492](#)

Cytogenetics: Xq26.2-q26.3

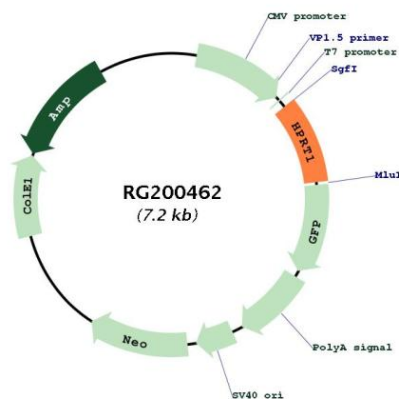
Domains: Pribosyltran

Protein Families: Druggable Genome, Stem cell - Pluripotency

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

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 RG200462