OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG202453

Hprt (NM_013556) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hprt (NM_013556) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hprt
Synonyms:	C81579; HPGRT; Hpr; Hprt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202453 representing NM_013556
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCCGCAGTCCCAGCGTCGTGATTAGCGATGATGAACCAGGTTATGACCTAGATTTGTTTTGTA
TACCTAATCATTATGCCGAGGATTTGGAAAAAGTGTTTATTCCTCATGGACTGATTATGGACAGGACTGA
AAGACTTGCTCGAGATGTCATGAAGGAGATGGGAGGCCATCACATTGTGGCCCTCTGTGTGCTCAAGGGG
GGCTATAAGTTCTTTGCTGACCTGCTGGATTACATTAAAGCACTGAATAGAAATAGTGATAGATCCATTC
CTATGACTGTAGATTTTATCAGACTGAAGAGCTACTGTAATGATCAGTCAACGGGGGACATAAAAGTTAT
TGGTGGAGATGATCTCTCAACTTTAACTGGAAAGAATGTCTTGATTGTTGAAGATATAATTGACACTGGT
AAAACAATGCAAACTTTGCTTTCCCTGGTTAAGCAGTACAGCCCCAAAATGGTTAAGGTTGCAAGCTTGC
TGGTGAAAAGGACCTCTCGAAGTGTTGGATACAGGCCAGACTTTGTTGGATTTGAAATTCCAGACAAGTT
TGTTGTTGGATATGCCCTTGACTATAATGAGTACTTCAGGGATTTGAATCACGTTTGTGTCATTAGTGAA
ACTGGAAAAGCCAAATACAAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG202453 representing NM_013556
Red=Cloning site Green=Tags(s)

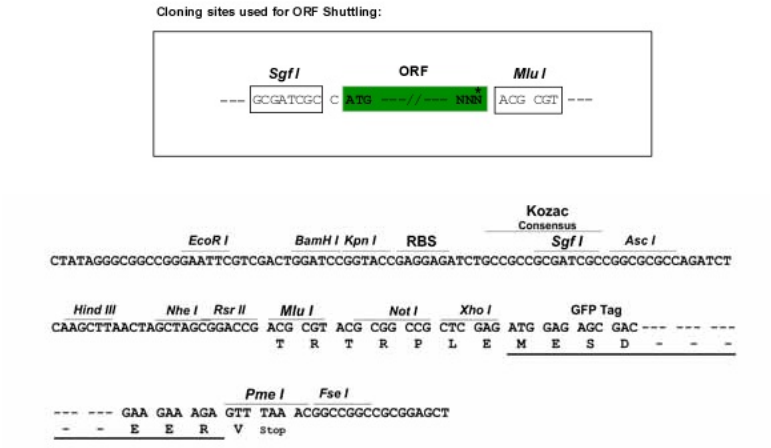
MATRSPSVVISDDEPGYDLDLFCIPNHYAEDLEKVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKG
GYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTG
KTMQTLLSLVKQYSPKMVKVASLLVKRTSRSVGYRPDFVGFEIPDKFVVGYALDYNEYFRDLNHVCVISE
TGKAKYKA

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2542_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013556

ORF Size: 654 bp

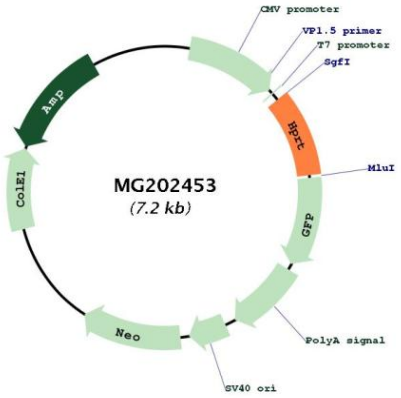
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_013556.2, NP_038584.2
RefSeq Size:	1349 bp
RefSeq ORF:	657 bp
Locus ID:	15452
UniProt ID:	P00493
Cytogenetics:	X 29.31 cM
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. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG202453