

Product datasheet for MR203530

Hpgd (NM_008278) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Hpgd (NM_008278) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Hpgd |
| Synonyms: | 15-PGDH; AV026552 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR203530 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCACGTGAACGGCAAAGTGGCTCTGGTGACCGCGCGGCACAGGGCATAGGCAAAGCCTTCGCTGAGG
CTCTGCTGCTCCATGGCGCCAAGGTAGCATTGGTGGATTGGAATCTTGAGGCAGGTGAAAATGTAAAGC
TGCCCTAGATGAGCAGTTCGAACCTCAGAAGACACTGTTCTGTCAGTGTGATGTGGCTGACCAGAAACAA
CTGAGAGATACTTTTAGAAAAGTTGTAGACCATTCGGAAGATTGGATATTTGGTCAACAATGCAGGCC
TGAACAATGAGAAAACTGGGAACAGACTCTACAAATTAATTTGGTTTCTGTTATCAGTGGGACCTATCT
TGGTTTGGATTACATGAGTAAGCAAAACGGAGGTGAAGGCGGCATCATCAATATGTCTTCATTAGCA
GGGCTCATGCCTGTTGCGCAGCAACCTGTTTATTGTGCTTCAAGCACGGCATCATCGGATTCACACGCT
CAGCAGCGATGGCTGCTAACCTCATGAAAAGCGGTGTAAGACTGAATGTCATTTGCCAGGCTTTGTGGA
CACACCCATCCTTGAATCCATTGAAAAAGAAGAAAATATGGGCCAATATATAGAATATAAGGACCAGATC
AAGGCTATGATGAAATCTATGGGGTTTACACCCATCAACCATTGCCAATGGATTAATAAATCTCATTG
AAGATGATGCTCTCAATGGTGCCATTATGAAGATCACGGCATCGAAAGGAATTCATTTTCAAGATTATGA
CATCTCTCCATTACTCGTAAAAGCTCCATTAACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203530 protein sequence
 Red=Cloning site Green=Tags(s)

MHVNGKVALVTGAAQGIGKAF AEALLLHGAKVALVDWNLEAGVKCKAALDEQFEPQKTLFVQCDVADQKQ
 LRDTFRKVVDFHGRDLILVNNAGVNNNEKNWEQTLQINLVSVISGTYLGLDYMSKQNGGEGGIIINMSSLA
 GLMPVAQQPVYCAASKHGIIGFTRSAAMAANLMKSGVRLNVICPGFVDTPILESIEKEENMGQYIEYKDQI
 KAMMKFYGVLPSTIANGLINLIEDDALNGAIMKITASKGIHFQDYDISPLLVKAPLTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008278

ORF Size: 810 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_008278.2](#), [NP_032304.2](#)

RefSeq Size: 1719 bp

RefSeq ORF: 810 bp

Locus ID: 15446

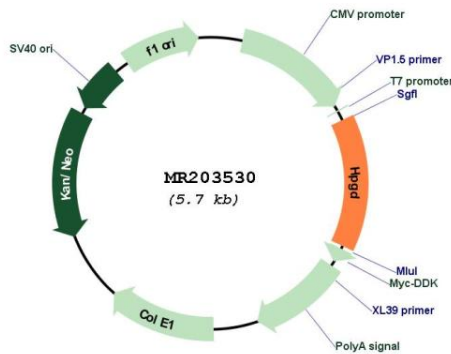
UniProt ID: [Q8VCC1](#)

Cytogenetics: 8 B2

MW: 29.2 kDa

Gene Summary: Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels. Catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203530