

Product datasheet for MR220403

Hpgds (NM_019455) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hpgds (NM_019455) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hpgds
Synonyms: H-PGDS; Ptgds2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220403 representing NM_019455
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTAACTACAACTGCTTTATTTAATATGAGGGGAAGAGCCGAAATTATTCGCTACATATTCGCTT
 ATTTGGACATAAAGTATGAGGATCACAGAATAGAACAAGCTGACTGGCCTAAAATCAAGCCAACCTTCC
 ATTTGGCAAAATCCCTGTTTTGGAGGTGGAAGGACTTACAATCCACCAGAGCCTCGCAATAGCAAGATAT
 TTGACCAAAAACACAGATTTGGCTGGGAAGACAGCGTTGGAGCAATGTCAAGCTGATGCAGTGGTGGACA
 CGCTGGATGACTTCATGTCTCTTCCCATGGGCAGAGAAAGATCAAGATCTAAAAGAGCGGATGTTCAA
 TGAATTGCTCACACATCAAGCACCTCGCCTTCTGAAAGATTTGGACACATACTTAGGAGACAAAGAGTGG
 TTTATAGGCAATTATGTAACCTGGGCAGACTTCTACTGGGATATCTGCAGCACCACACTTTTGGTTTTAA
 AGCCTGGCTTGTGGATATCTACCCAACTGGTGTCAATACGGAACAAAGTCCAAGCTATCCCTGCCAT
 TTCTGCCTGGATACTAAAGAGGCCACAGACAAAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220403 representing NM_019455
 Red=Cloning site Green=Tags(s)

MPNYKLLYFNMRGRAEIIIRYIFAYLDIKYEDHRIEQADWPKIKPTLPFGKIPVLEVEGLTIHQSLAIARY
 LTKNTDLAGKTALEQCQADAVVDTLDDFMSLFPWAEKDQDLKERMFNELLTHQAPRLKDLDTYLGDKWE
 FIGNYVTWADFYWDICSTTLLVLKPGLLDIYPKLVSLRNKVQAIPASAWILKRPQTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mm9038_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019455

ORF Size: 597 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_019455.4](#), [NP_062328.3](#)

RefSeq Size: 3298 bp

RefSeq ORF: 600 bp

Locus ID: 54486

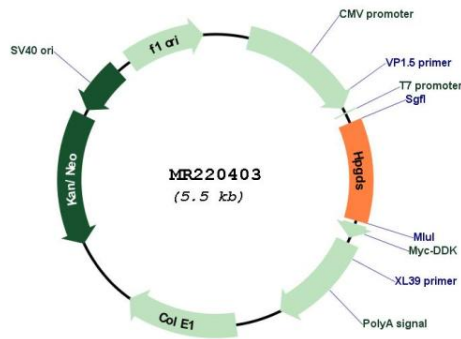
UniProt ID: [Q9JHF7](#)

Cytogenetics: 6 C1

MW: 23.7 kDa

Gene Summary: Bifunctional enzyme which catalyzes both the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation, and the conjugation of glutathione with a wide range of aryl halides and organic isothiocyanates. Also exhibits low glutathione-peroxidase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220403