

## HPGDS cDNA

Catalog Number: ATGD0117

### PRODUCT INFORMATION

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**Catalog number**

ATGD0117

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_055300.1

**Alternative Names**

Hematopoietic prostaglandin D synthase, GSTS, PGDS, H-PGDS, PGD2, GSTS1-1, GSTS1

**mRNA Refseq**

NM\_014485.2

**OMIM**

602598

**Chromosome location**

4q22.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

600bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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Prostaglandin-D synthase is a sigma class glutathione-S-transferase family member. The enzyme catalyzes the conversion of PGH<sub>2</sub> to PGD<sub>2</sub> and plays a role in the production of prostanoids in the immune system and mast cells. The presence of this enzyme can be used to identify the differentiation stage of human megakaryocytes.

### DATA

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#### Sequence nucleotides

```
ATGCCAAACT ACAAACTCAC TTATTTTAAT ATGAGGGGGA GAGCAGAAAT TATTCGTTAC ATATTTGCTT ATTTGGACAT
ACAGTATGAA GACCACAGAA TAGAACCAAGC TGA CTGGCCT GAAATCAAAT CAACTCTCCC ATTTGGAAAA
ATCCCCATTT TGGAAGTTGA TGGACTTACT CTTACCAGA GCCTAGCAAT AGCAAGATAT TTGACCAAAA
ACACAGATTT GGCTGGAAAC ACAGAAATGG AACAATGTCA TGTTGATGCT ATTGTGGACA CTCTGGATGA
TTTCATGTCA TGTTTTCTTT GGGCAGAGAA AAAGCAAGAT GTGAAAGAGC AGATGTTCAA TGAGCTGCTC
ACGTATAATG CGCCTCATCT TATGCAAGAC TTGGACACAT ATTTAGGGGG GAGAGAATGG CTTATTGGTA
ACTCTGTAAC TTGGGCAGAC TTCTACTGGG AGATTTGCAG TACCACACTT TTGGTCTTTA AGCCTGACCT
GTTAGACAAC CATCCAAGGC TGGTGACTTT ACGGAAGAAA GTCCAAGCCA TTCCTGCCGT CGCTAACTGG
ATAAAACGAA GGCCCCAAC CAAACTCTAG
```

#### Transaction Sequence

```
MPNYKLTYFN MRGRAEIIRY IFAYLDIQYE DHRIEQADWP EIKSTLPFGK IPILEVDGLT LHQSLAIARY LTKNTDLAGN
TEMEQCHVDA IVDTLDDFMS CFPWAEKKQD VKEQMFNELL TYNAPHLMQD LDTYLG GREW LIGNSVTWAD FYWEICSTTL
LVFKPDLLDN HPRLVTLRKK VQAIPAVANW IKRRPQTKL
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