

Product datasheet for **RG204725**

HPGDS (NM_014485) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HPGDS (NM_014485) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HPGDS
Synonyms: GSTS; GSTS1; GSTS1-1; PGD2; PGDS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204725 representing NM_014485
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACTACAACTCACTTATTTTAAATAGAGGGGAGAGCAGAAATTATTCGTTACATATTTGCTT
ATTTGGACATACAGTATGAAGACCACAGAATAGAACAAGCTGACTGGCCTGAAATCAAATCAACTCTCCC
ATTTGGAAAAATCCCATTTTGAAGTTGATGGACTTACTCTTACCAGAGCCTAGCAATAGCAAGATAT
TTGACCAAAAACACAGATTTGGCTGAAACACAGAAATGGAACAATGTCATGTTGATGCTATTGTGGACA
CTCTGGATGATTCATGTCATGTTTTCTTGGGCAGAGAAAAGCAAGATGTGAAAGAGCAGATGTTCAA
TGAGCTGCTCACGTATAATGCGCCTCATCTTATGCAAGACTTGGACACATATTTAGGGGGAGAGAAATGG
CTTATTGGTAACTCTGTAACCTTGGGCAGACTTCTACTGGGAGATTTGCAGTACCACACTTTTGGTCTTTA
AGCCTGACCTGTTAGACAACCATCCAAGGCTGGTACTTTACGGAAGAAAGTCCAAGCCATTCTGCCGT
CGCTAACTGGATAAAAACGAAGGCCCCAAACCAAACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204725 representing NM_014485
Red=Cloning site Green=Tags(s)

MPNYKLYFNMRGRAEIIIRYIFAYLDIQYEDHRIEQADWPEIKSTLPGKIPILEVDGLTLHQSLAIARY
LTKNTDLAGNTEMEQCHVDAIVDTLDDFMSCFPWAEKKQDVKEQMFNELLTYNAPHLMQDLDTYLGREW
LIGNSVTWADFYWEICSTLLVFKPDLLDNHPRLVTLRKKVQAIPAVANWIKRRPQTKL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_014485

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_014485.3](#)

RefSeq Size: 1615 bp

RefSeq ORF: 600 bp

Locus ID: 27306

UniProt ID: [O60760](#)

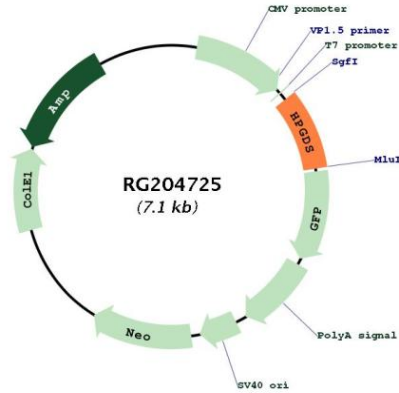
Cytogenetics: 4q22.3

Domains: GST_N, GST_C

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Gene Summary: Prostaglandin-D synthase is a sigma class glutathione-S-transferase family member. The enzyme catalyzes the conversion of PGH2 to PGD2 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204725