

Product datasheet for **SC114983**

HPGDS (NM_014485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPGDS (NM_014485) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPGDS
Synonyms:	GSTS; GSTS1; GSTS1-1; PGD2; PGDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114983 sequence for NM_014485 edited (data generated by NextGen Sequencing)

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ATGCCAAACTACAAACTCACTTATTTTAAATATGAGGGGGAGAGCAGAAATTATTCGTTAC
ATATTTGCTTATTTGGACATACAGTATGAAGACCACAGAATAGAACAAGCTGACTGGCCT
GAAATCAAATCAACTCTCCCATTTGAAAAATCCCATTTTGAAGTTGATGGACTTACT
CTTCACCAGAGCCTAGCAATAGCAAGATATTTGACCAAAAACACAGATTTGGCTGGAAAC
ACAGAAATGGAACAATGTCATGTTGATGCTATTGTGGACACTCTGGATGATTTTCATGTCA
TGTTTTCTTTGGCAGAGAAAAAGCAAGATGTGAAAGAGCAGATGTTCAATGAGCTGCTC
ACGTATAATGCGCCTCATCTTATGCAAGACTTGGACACATATTTAGGGGGGAGAGAATGG
CTTATTGGTAACTCTGTAACCTGGGCAGACTTCTACTGGGAGATTTGCAGTACCACACTT
TTGGTCTTTAAGCCTGACCTGTTAGACAACCATCCAAGGCTGGTACTTTACGGAAGAAA
GTCCAAGCCATTCTGCCGTCGCTAACTGGATAAAACGAAGGCCCCAAACCAAACCTCTAG
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Clone variation with respect to NM_014485.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014485 unedited TGCGGATTTGTATACGACTCATATAGGGCGGCCGGAATCGGCACGAGGACTTACTCGTC ATATAAACCCAAGGCACAGTCACATACCCAGGGATACAAGACTGCAGACTCCCGAGAG ACATAACACAGAATTGCACCATGCCAACTACAACTCACTTATTTTAATATGAGGGGGA GAGCAGAAATTATTCGTTACATATTTGCTTATTTGGACATACAGTATGAAGACCACAGAA TAGAACAAAGCTGACTGGCCTGAAATCAAATCAACTCTCCCATTTGGAAAAATCCCCATTT TGGAAGTTGATGGACTTACTCTTCACCAGAGCCTAGCAATAGCAAGATATTTGACCAAAA ACACAGATTTGGCTGGAAACACAGAAAATGGAACAATGTCATGTTGATGCTATTGTGGACA CTCTGGATGATTTTTCATGTCATGTTTTCTTGGCAGAGAAAAAGCAAGATGTGAAAGAGC AGATGTTCAATGAGCTGCTCACGTATAATGCGCCTCATCTTATGCAAGACTTGGACACAT ATTTAGGGGGGAGAGAATGGCTTATTGGTAACTCTGTAACCTGGGCAGACTTCTACTGGG AGATTTGCAGTACCACACTTTTGGTCTTTAAGCCTGACCTGTTAGACAACCATCCAAGGC TGGTGACTTTACGGAAGNAAGTCCAAGCCATTCTGCCGTCGCTAACTGGATAAAACGAA GGCCCCAACCAACTCTAGCTGATCCATGTTGCCCTCAAGTTTTGTTTTCTTCGGGGCA TCTCTTATCAGATAGACAGCTACATCAGCCTGCCAGATATCCACATGCTCCCTCCCCA GGGTCATAAGATTTTCACTTTTACCATATTCTGATTTTTAAAAGGAAAAAAAAAAACAAT CTTTTTAGTAAAAAAAAAAAAAAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_014485
Insert Size:	6000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_014485.2 , NP_055300.1
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]