

Product datasheet for SC119661

Prostaglandin dehydrogenase 1 (HPGD) (NM_000860) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin dehydrogenase 1 (HPGD) (NM_000860) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPGD
Synonyms:	15-PGDH; PGDH; PGDH1; PHOAR1; SDR36C1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119661 sequence for NM_000860 edited (data generated by NextGen Sequencing) ATGCACGTGAACGGCAAAGTGGCGCTGGTGACCGCGCGGCTCAGGGCATAGGCAGAGCC TTTGCAGAGGCGCTGCTGCTTAAGGGCGCCAAGGTAGCGCTGGTGGATTGGAATCTTGAA GCAGGTGTACAGTGTAAGCTGCCCTGGATGAGCAATTTGAACCTCAGAAGACTCTGTTC ATCCAGTGCATGTGGCTGACCAGCAACAAGTGAAGACACTTTTAGAAAAGTTGTAGAC CACTTTGGAAGACTGGACATTTTGGTCAATAATGCTGGAGTGAATAATGAGAAAACTGG GAAAAAACTCTGCAAATTAATTTGGTTTCTGTTATCAGTGAACCTATCTTGGTTTGGAT TACATGAGTAAGCAAAATGGAGGTGAAGCGGCATCATTATCAATATGTCATCTTTAGCA GGACTCATGCCCGTTGCACAGCAGCCGTTTATTGTGCTTCAAAGCATGGCATAGTTGGA TTCACACGCTCAGCAGCGTTGGCTGCTAATCTTATGAACAGTGGTGTGAGACTGAATGCC ATTTGTCCAGGCTTTGTTAACACAGCCATCCTTGAATCAATTGAAAAAGAAGAAAACATG GGACAATATAGAAATATAAGGATCATATCAAGGATATGATTAATACTATGGAATTTTG GACCCACCATTTGATGCCAATGGATTGATAAAGTCACTTGAAGATGATGCTTTAAATGGT GCTATTATGAAGATCACAACCTTAAGGGAATTCATTTTCAAGACTATGATACAACCTCCA TTTCAAGCAAAAACCAATGA Clone variation with respect to NM_000860.4 156 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000860 unedited AGGGATTAGTACTCCGACTTTATGATAGGNCGGAAACGCANATTCGGCACGAGCCCCAG CAGTGTGTTGCACCATGCACGTGAACGGCAAAGTGGCGCTGGTGACCGGCGCGGCTCAGG GCATAGGCAGAGCCTTTGCAGAGGCGCTGCTGCTTAAGGGCGCCAAGGTAGCGCTGGTGG ATTGGAATCTTGAAGCAGGTGTACAGTGTAAAGTTGCCTTTGTTGAGCAATTTGAACCTC ATAAGACTCTGTTCCAGTGCATGTGGCTGACCAGCAACAAGTGGAGACACTTTTA GAAAAGTTGTAGACCACCTTTGGAAGACTGGACATTTGGTCAATAATGCTGGAGTGAATA ATGAGAAAAACTGGGAAAAAAGTCTGCAAATTAATTTGGTTTCTGTTATCAGTGGAACCT ATCTTGGTTTGGATTACATGAGTAAGCAAAATGGAGGTGAAGGCGGCATCATTATCAATA TGTCATCTTTAGCAGGACTCATGCCGTTGCACAGCAGCCGGTTTATTGTGCTTCAAAGC ATGGCATAGTTGGATTACACGCTCAGCAGCGTTGGCTGCTAATCTTATGAACAGTGGTG TGAGACTGAATGCCATTTGTCCAGGCTTTGTTAACACAGCCATCCTTTGATCAATTGAAA AAGAAGAAAACATGGGACAATATATAGAATATAAGGGTCATATCCAGGATATGATTAAT ACTATGGAATTTGGGACCCACCATTGATTGCCAATGGATTGATAACACTCATTTGAAGA TGATGGCTTTAAATGGTCTATTATGAAAATTCACACTTCTTAAGGAATTCATTTNCAG ACTATGATACAACCTCTTTCAAGCAAAAACCCATGAACAGCTTATGTTGTTACCATAG CTGGAAAATAGCCAAATAGCTTTATTTCAGATCCTACCTCCATTGAAATAGCTTTAAAGAA GTTACAATTGCAGTTTCTCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_000860
Insert Size:	2750 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
RefSeq:	NM_000860.3 , NP_000851.2
RefSeq Size:	2592 bp
RefSeq ORF:	801 bp
Locus ID:	3248
UniProt ID:	P15428
Domains:	adh_short
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the short-chain nonmetalloenzyme alcohol dehydrogenase protein family. The encoded enzyme is responsible for the metabolism of prostaglandins, which function in a variety of physiologic and cellular processes such as inflammation. Mutations in this gene result in primary autosomal recessive hypertrophic osteoarthropathy and cranioosteoarthropathy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).