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Product datasheet for RC233304

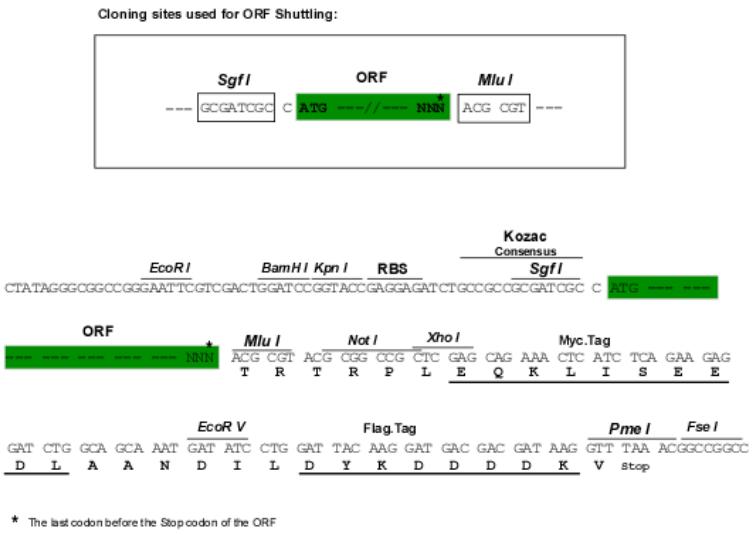
Prostaglandin dehydrogenase 1 (HPGD) (NM_001256307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin dehydrogenase 1 (HPGD) (NM_001256307) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prostaglandin dehydrogenase 1
Synonyms:	15-PGDH; PGDH; PGDH1; PHOAR1; SDR36C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233304 representing NM_001256307 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTAAGCAAAATGGAGGTGAAGGCGGCATCATTATCAATATGTCATCTTTAGCAGGACTCATGCCCG TTGCACAGCAGCCGGTTTATTGTGCTTCAAAGCATGGCATAGTTGGATTCACACGCTCAGCAGCGTTGGC TGCTAATCTTATGAACAGTGGTGTGAGACTGAATGCCATTTGTCCAGGCTTTGTTAACACAGCCATCCTT GAATCAATTGAAAAAGAAGAAAACATGGGACAATATATAGAATATAAGGATCATATCAAGGATATGATTA AATACTATGGAATTTTGGACCCACCATTGATTGCCAATGGATTGATAACACTCATTGAAGATGATGCTTT AAATGGTGCTATTATGAAGATCACAACTTCTAAGGGAATTCATTTTCAAGACTATGATACAACTCCATTT CAAGCAAAAACCCAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC233304 representing NM_001256307 Red=Cloning site Green=Tags(s) MSKQNGGEGGIIINMSSLAGLMPVAQQPVYCASKHGIVGFTRSAALAANLMNSGVRLNAICPGFVNTAIL ESIEKEENMGQYIEYKDHIKDMIKYYGILDPPLIANGLITLIEDDALNGAIMKITTSKGIHFQDYDTTPF QAKTQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_001256307
ORF Size:	435 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_001256307.1, NP_001243236.1
RefSeq Size:	2937 bp
RefSeq ORF:	438 bp
Locus ID:	3248
UniProt ID:	P15428

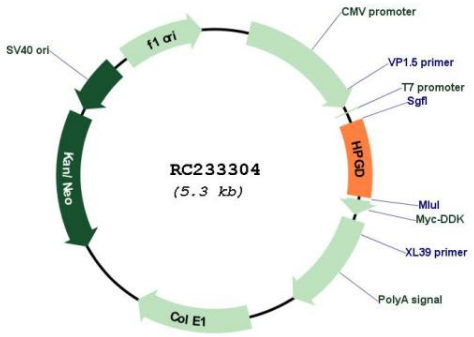
Cytogenetics: 4q34.1

Protein Families: Druggable Genome

MW: 16.1 kDa

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]

Product images:



Circular map for RC233304