

## Product datasheet for **SC332337**

### Prostaglandin dehydrogenase 1 (HPGD) (NM\_001256301) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prostaglandin dehydrogenase 1 (HPGD) (NM\_001256301) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Prostaglandin dehydrogenase 1  
**Synonyms:** 15-PGDH; PGDH; PGDH1; PHOAR1; SDR36C1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332337 representing NM\_001256301.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGAGTAAGCAAATGGAGGTGAAGCGGCATCATTATCAATATGTCATCTTTAGCAGGACTCATGCCC  
GTTGCACAGCAGCCGTTTATTGTGCTTCAAAGCATGGCATAGTTGGATTACACGCTCAGCAGCGTTG  
GCTGCTAATCTTATGAACAGTGGTGTGAGACTGAATGCCATTTGTCCAGGCTTTGTTAACACAGCCATC  
CTTGAATCAATTGAAAAAGAAGAAACATGGGACAATATAGAATATAAGGATCATATCAAGGATATG  
ATTAATACTATGGAATTTGGACCCACCATTGATTGCCAATGGATTGATAACACTCATTGAAGATGAT  
GCTTTAAATGGTCTATTATGAAGATCACAACCTCTAAGGAATTCATTTCAAGACTATGATACAACT  
CCATTTCAAGCAAAAACCCAAATGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001256301  
**Insert Size:** 438 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).



[View online »](#)

**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\\_001256301.1](#)

**RefSeq Size:** 2774 bp

**RefSeq ORF:** 438 bp

**Locus ID:** 3248

**UniProt ID:** [P15428](#)

**Cytogenetics:** 4q34.1

**Protein Families:** Druggable Genome

**MW:** 15.7 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]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. These differences result in translation at a downstream start codon and an isoform (3) with a shorter N-terminus, compared to isoform 1. Variants 3 and 6 encode the same protein (isoform 3).