

## **Product datasheet for PH301807**

#### OriGene Technologies, Inc.

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### Glucose 6 Phosphate Dehydrogenase (G6PD) (NM\_001042351) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** G6PD MS Standard C13 and N15-labeled recombinant protein (NP\_001035810)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC201807

or AA Sequence: Predicted MW:

59.3 kDa

Protein Sequence: >RC201807 protein sequence

Red=Cloning site Green=Tags(s)

MAEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGY ARSRLTVADIRKQSEPFFKATPEEKLKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGSQANRLFYL ALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQN LMVLRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTN SDDVRDEKVKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYVENERWD GVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAVYTKMMTKKPGMFFNPEESEL DLTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRSDELREAWRIFTPLLHQIELEKPKPIPYIYGSRGPT

EADELMKRVGFQYEGTYKWVNPHKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 001035810

RefSeq Size: 2295 RefSeq ORF: 1545





# Glucose 6 Phosphate Dehydrogenase (G6PD) (NM\_001042351) Human Mass Spec Standard – PH301807

Synonyms: G6PD1 Locus ID: 2539

UniProt ID: <u>P11413</u>, <u>A0A384NL00</u>

Cytogenetics: Xq28

**Summary:** This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme

encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key

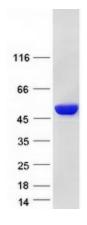
electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly

produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

### **Product images:**



Coomassie blue staining of purified G6PD protein (Cat# [TP301807]). The protein was produced from HEK293T cells transfected with G6PD cDNA clone (Cat# [RC201807]) using MegaTran 2.0 (Cat# [TT210002]).