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Product datasheet for RC203949L4V

PHGDH (NM_006623) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PHGDH (NM_006623) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PHGDH
Synonyms:	3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006623
ORF Size:	1599 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203949).
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.
RefSeq:	NM_006623.2, NP_006614.2
RefSeq Size:	2021 bp
RefSeq ORF:	1602 bp
Locus ID:	26227
UniProt ID:	O43175
Cytogenetics:	1p12
Domains:	2-Hacid_DH, 2-Hacid_DH_C
Protein Families:	Druggable Genome, Stem cell - Pluripotency

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Protein Pathways: Glycine, serine and threonine metabolism, Metabolic pathways

MW: 56.7 kDa

Gene Summary: This gene encodes the enzyme which is involved in the early steps of L-serine synthesis in animal cells. L-serine is required for D-serine and other amino acid synthesis. The enzyme requires NAD/NADH as a cofactor and forms homotetramers for activity. Mutations in this gene have been found in a family with congenital microcephaly, psychomotor retardation and other symptoms. Multiple alternatively spliced transcript variants have been found, however the full-length nature of most are not known. [provided by RefSeq, Aug 2011]