

Product datasheet for **RC216795L2V**

Prostaglandin D Synthase (PTGDS) (NM_000954) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Prostaglandin D Synthase (PTGDS) (NM_000954) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Prostaglandin D Synthase
Synonyms:	L-PGDS; LPGDS; PDS; PGD2; PGDS; PGDS2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000954
ORF Size:	570 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216795).
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_000954.5 , NP_000945.3
RefSeq Size:	837 bp
RefSeq ORF:	573 bp
Locus ID:	5730
UniProt ID:	P41222
Cytogenetics:	9q34.3
Domains:	lipocalin
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways



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MW: 20.8 kDa

Gene Summary: The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H₂ (PGH₂) to prostaglandin D₂ (PGD₂). PGD₂ functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD₂ is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep. [provided by RefSeq, Jul 2008]