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Product datasheet for RC200089L4V

DHFR (NM_000791) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	DHFR (NM_000791) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DHFR
Synonyms:	DHFRP1; DYR
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000791
ORF Size:	561 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200089).
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_000791.3
RefSeq Size:	3932 bp
RefSeq ORF:	564 bp
Locus ID:	1719
UniProt ID:	P00374
Cytogenetics:	5q14.1
Domains:	DiHfolate_red
Protein Families:	Druggable Genome, Stem cell - Pluripotency

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Protein Pathways: Folate biosynthesis, Metabolic pathways, One carbon pool by folate

MW: 21.5 kDa

Gene Summary: Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]