

Product datasheet for **RC211662L4V**

Folypolyglutamate synthase (FPGS) (NM_001018078) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Folypolyglutamate synthase (FPGS) (NM_001018078) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Folypolyglutamate synthase
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001018078
ORF Size:	1611 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211662).
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_001018078.1
RefSeq Size:	2475 bp
RefSeq ORF:	1614 bp
Locus ID:	2356
UniProt ID:	Q05932
Cytogenetics:	9q34.11
Protein Pathways:	Folate biosynthesis, Metabolic pathways
MW:	59 kDa



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Gene Summary:

This gene encodes the folylpolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial folylpolyglutamate concentrations and, therefore, is essential for folate homeostasis and the survival of proliferating cells. This enzyme catalyzes the ATP-dependent addition of glutamate moieties to folate and folate derivatives. Alternative splicing results in transcript variants encoding different isoforms. [provided by RefSeq, Jan 2014]