

Product datasheet for **RC209482L4V**

Hexokinase II (HK2) (NM_000189) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Hexokinase II (HK2) (NM_000189) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Hexokinase II
Synonyms:	HKII; HXK2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000189
ORF Size:	2751 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209482).
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_000189.4
RefSeq Size:	7109 bp
RefSeq ORF:	2754 bp
Locus ID:	3099
UniProt ID:	P52789
Cytogenetics:	2p12
Domains:	hexokinase
Protein Families:	Druggable Genome



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Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus
MW:	102.2 kDa
Gene Summary:	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq, Apr 2009]