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Product datasheet for RC205218L4V

TKTL1 (NM_012253) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	TKTL1 (NM_012253) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TKTL1
Synonyms:	TKR; TKT2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_012253
ORF Size:	1788 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205218).
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_012253.2, NP_036385.2
RefSeq Size:	2652 bp
RefSeq ORF:	1791 bp
Locus ID:	8277
UniProt ID:	P51854
Cytogenetics:	Xq28
Domains:	transketolase, transket_pyr, transketolase_C
Protein Families:	Druggable Genome

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Protein Pathways: Metabolic pathways, Pentose phosphate pathway

MW: 65.4 kDa

Gene Summary: The protein encoded by this gene is a transketolase that acts as a homodimer and catalyzes the conversion of sedoheptulose 7-phosphate and D-glyceraldehyde 3-phosphate to D-ribose 5-phosphate and D-xylulose 5-phosphate. This reaction links the pentose phosphate pathway with the glycolytic pathway. Variations in this gene may be the cause of Wernicke-Korsakoff syndrome. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]