

Product datasheet for RC200476L4

GALK1 (NM_000154) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GALK1 (NM_000154) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	GALK1
Synonyms:	GALK; GK1; HEL-S-19
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200476).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT

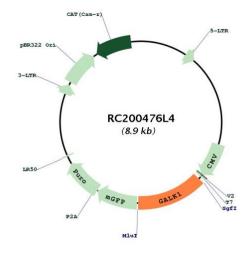
			Kozak Consensus	
EcoR I	BamH I	RBS	Sgf I	ORF
CTATAGGGCGGCCGGGAATTCGTC	GACTGGATCC	GTACCGAGGAGA	TCTGCCGCCGCGATCG	C ATG
	Mlul	Notl_Xh	ol mGFP1	lag
NNÑ			GAG ATG AGC GGG	
	TRT	RPL	EMSG	G
GGA CTC AGA GTT TGO	5 GTA GGA AGC			

* The last codon before the Stop codon of the ORF.



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Plasmid Map:



ACCN:	NM_000154
ORF Size:	1176 bp
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 000154.1, NP 000145.1</u>
RefSeq Size:	1361 bp
RefSeq ORF:	1179 bp

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	GALK1 (NM_000154) Human Tagged Lenti ORF Clone – RC200476L4
Locus ID:	2584
UniProt ID:	<u>P51570</u>
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways
MW:	42.3 kDa
Gene Summary:	Galactokinase is a major enzyme for the metabolism of galactose and its deficiency causes congenital cataracts during infancy and presenile cataracts in the adult population. [provided by RefSeq, Jul 2008]

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