

Product datasheet for RC204245L1

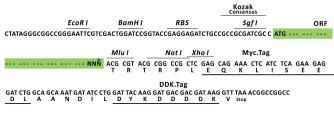
MELK (NM_014791) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MELK (NM_014791) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	MELK
Synonyms:	HPK38
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204245).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT



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

ACCN: ORF Size: NM_014791 1953 bp



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Sevential Crifere Melk (NM_014791) Human Tagged Lenti ORF Clone – RC204245L1

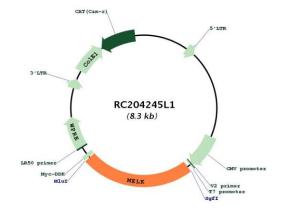
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery. 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 014791.2, NP 055606.1</u>
RefSeq Size:	2486 bp
RefSeq ORF:	1956 bp
Locus ID:	9833
UniProt ID:	<u>Q14680</u>
Cytogenetics:	9p13.2
Domains:	pkinase, TyrKc, KA1, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	74.6 kDa

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Scrigene Melk (NM_014791) Human Tagged Lenti ORF Clone – RC204245L1

Gene Summary:Serine/threonine-protein kinase involved in various processes such as cell cycle regulation,
self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity;
phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of
apoptosis by phosphorylating and activating MAP3K5/ASK1. Acts as a regulator of cell cycle,
notably by mediating phosphorylation of CDC25B, promoting localization of CDC25B to the
centrosome and the spindle poles during mitosis. Plays a key role in cell proliferation and
carcinogenesis. Required for proliferation of embryonic and postnatal multipotent neural
progenitors. Phosphorylates and inhibits BCL2L14, possibly leading to affect mammary
carcinogenesis by mediating inhibition of the pro-apoptotic function of BCL2L14. Also
involved in the inhibition of spliceosome assembly during mitosis by phosphorylating
ZNF622, thereby contributing to its redirection to the nucleus. May also play a role in primitive
hematopoiesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204245L1

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