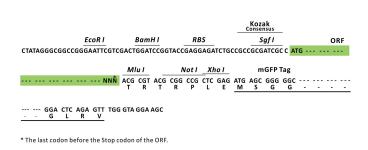


Product datasheet for RC212228L4

ERK5 (MAPK7) (NM_139033) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERK5 (MAPK7) (NM_139033) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	ERK5
Synonyms:	BMK1; ERK4; ERK5; PRKM7
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(RC212228).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GCC ATG NNN ACG CGT



ACCN: ORF Size: NM_139033 2448 bp

OriGene Technologies, Inc.

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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 custsupport@origene.com 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 or fits eame 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 infoOTI 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 Method1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of settile water to dissolve the DNA. 3. Close the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. S. 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 Size:3183 bpRefSeq ORF:2451 bpLocus ID:5598Locus ID:5598Locus ID:5598Locus ID:013164Cytogenetics:17p11.2Domains:pi		RK5 (MAPK7) (NM_139033) Human Tagged Lenti ORF Clone – RC212228L4
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Protein Pathways: Gap junction, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway pathway pathway	Domains:	pkinase, TyrKc, S_TKc
pathway	Protein Families:	Druggable Genome, Protein Kinase
WW: 88.4 kDa	Protein Pathways:	
	MW:	88.4 kDa

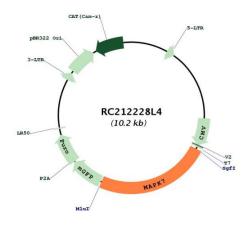
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Gene Summary:The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as
an integration point for multiple biochemical signals, and are involved in a wide variety of
cellular processes such as proliferation, differentiation, transcription regulation and
development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5
(MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor
molecules including receptor type kinases, and G protein-coupled receptors. In response to
extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene
expression by phosphorylating, and activating different transcription factors. Four
alternatively spliced transcript variants of this gene encoding two distinct isoforms have been
reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212228L4

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