

## Product datasheet for **RC225492L4V**

### **ERK1 (MAPK3) (NM\_001109891) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

<b>Product Type:</b>	Lentiviral Particles
<b>Product Name:</b>	ERK1 (MAPK3) (NM_001109891) Human Tagged ORF Clone Lentiviral Particle
<b>Symbol:</b>	ERK1
<b>Synonyms:</b>	ERK-1; ERK1; ERT2; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; P44ERK1; P44MAPK; PRKM3
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Vector:</b>	pLenti-C-mGFP-P2A-Puro (PS100093)
<b>Tag:</b>	mGFP
<b>ACCN:</b>	NM_001109891
<b>ORF Size:</b>	1005 bp
<b>ORF Nucleotide Sequence:</b>	The ORF insert of this clone is exactly the same as(RC225492).
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<a href="#">NM_001109891.1</a> , <a href="#">NP_001103361.1</a>
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	5595
<b>UniProt ID:</b>	<a href="#">P27361</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase



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**Protein Pathways:** Acute myeloid leukemia, Adherens junction, Alzheimer's disease, Axon guidance, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, TGF-beta signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Type II diabetes mellitus, Vascular smooth muscle contraction, VEGF signaling pathway

**MW:** 38.1 kDa

**Gene Summary:** The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008]