

## Product datasheet for **RC209913L1V**

### **ASK1 (MAP3K5) (NM\_005923) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	ASK1 (MAP3K5) (NM_005923) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ASK1
Synonyms:	ASK1; MAPKKK5; MEKK5
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_005923
ORF Size:	4122 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209913).
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. <a href="#">More info</a>
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:	<a href="#">NM_005923.3</a>
RefSeq Size:	5215 bp
RefSeq ORF:	4125 bp
Locus ID:	4217
UniProt ID:	<a href="#">Q99683</a>
Cytogenetics:	6q23.3
Domains:	pkinese, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase



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<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), MAPK signaling pathway, Neurotrophin signaling pathway
<b>MW:</b>	154.5 kDa
<b>Gene Summary:</b>	Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK. [provided by RefSeq, Jul 2008]