

## Product datasheet for **MR218778L3V**

### Pask (NM\_080850) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Pask (NM_080850) Mouse Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Pask   |
| Synonyms:                 | mKIAA0135  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_080850  |
| ORF Size:                 | 4149 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR218778).   |
| 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_080850.2</a> , <a href="#">NP_543126.2</a>  |
| RefSeq Size:              | 5119 bp  |
| RefSeq ORF:               | 4152 bp  |
| Locus ID:                 | 269224   |
| UniProt ID:               | <a href="#">Q8CEE6</a>   |
| Cytogenetics:             | 1 D  |



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**Gene Summary:**

Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells; however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate to respiratory regulation.[UniProtKB/Swiss-Prot Function]