

## Product datasheet for **MR206703L3V**

### Agk (NM\_023538) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Agk (NM_023538) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Agk
Synonyms:	2610037M15Rik; 6720408I04Rik; A1465370; Mulk
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_023538
ORF Size:	1266 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206703).
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_023538.1</a>
RefSeq Size:	2225 bp
RefSeq ORF:	1266 bp
Locus ID:	69923
UniProt ID:	<a href="#">Q9ESW4</a>
Cytogenetics:	6 B1



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**Gene Summary:**

Lipid kinase that can phosphorylate both monoacylglycerol and diacylglycerol to form lysophosphatidic acid (LPA) and phosphatidic acid (PA), respectively (PubMed:15252046). Does not phosphorylate sphingosine (PubMed:15252046). Independently of its lipid kinase activity, acts as a component of the TIM22 complex (By similarity). The TIM22 complex mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane by forming a twin-pore translocase that uses the membrane potential as the external driving force (By similarity). In the TIM22 complex, required for the import of a subset of metabolite carriers into mitochondria, such as ANT1/SLC25A4 and SLC25A24, while it is not required for the import of TIMM23 (By similarity). Overexpression increases the formation and secretion of LPA, resulting in transactivation of EGFR and activation of the downstream MAPK signaling pathway, leading to increased cell growth (By similarity).[UniProtKB/Swiss-Prot Function]