

Product datasheet for **MR207834L3V**

Gas8 (NM_018855) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Gas8 (NM_018855) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Gas8
Synonyms:	Gas11
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_018855
ORF Size:	1437 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207834).
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. More info
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:	NM_018855.2 , NP_061343.2
RefSeq Size:	1687 bp
RefSeq ORF:	1437 bp
Locus ID:	104346
UniProt ID:	Q60779
Cytogenetics:	8 E1



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Gene Summary:

Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Plays an important role in the assembly of the N-DRC linker (By similarity). Plays dual roles at both the primary (or non-motile) cilia to regulate hedgehog signaling and in motile cilia to coordinate cilia movement. Required for proper motile cilia functioning. Positively regulates ciliary smoothed (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity in a GRK2-dependent manner (PubMed:17366626, PubMed:21659505, PubMed:27472056). May play a role in the spermatozoa motility (PubMed:11751847).[UniProtKB/Swiss-Prot Function]