Product datasheet for MR217736L4V

Adcy10 (NM_173029) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Adcy10 (NM_173029) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Adcy10
Synonyms:	4930431D04Rik; 4931412F17; sAC; Sacy
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_173029
ORF Size:	4845 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR217736).
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_173029.3, NP_766617.2
RefSeq Size:	5209 bp
RefSeq ORF:	4845 bp
Locus ID:	271639
UniProt ID:	Q8C0T9
Cytogenetics:	1 H2.3

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Gene Summary: Catalyzes the formation of the signaling molecule cAMP. May function as sensor that mediates responses to changes in cellular bicarbonate and CO_2 levels (By similarity). Has a critical role in mammalian spermatogenesis by producing the cAMP which regulates cAMP-responsive nuclear factors indispensable for sperm maturation in the epididymis. Induces capacitation, the maturational process that sperm undergo prior to fertilization (PubMed:14976244, PubMed:16054031). Involved in ciliary beat regulation (By similarity). [UniProtKB/Swiss-Prot Function]