

## Product datasheet for MR225447L4

### Adcy1 (NM\_009622) Mouse Tagged Lenti ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Adcy1 (NM_009622) Mouse Tagged Lenti ORF Clone                 |
| Tag:                      | mGFP   |
| Symbol:                   | Adcy1  |
| Synonyms:                 | AC1; brl; D11Bwg1392e; I-AC; mKIAA4070                         |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                              |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                     |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR225447). |
| Restriction Sites:        | SgfI-RsrII   |
| Cloning Scheme:           |  |

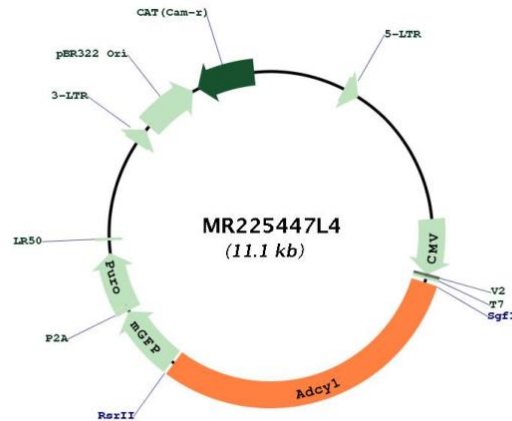
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.



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**Plasmid Map:**


**ACCN:** NM\_009622

**ORF Size:** 3354 bp

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_009622.1](#)

**RefSeq Size:** 12259 bp

**RefSeq ORF:** 3357 bp

Locus ID: 432530

UniProt ID: [O88444](#)

Cytogenetics: 11 4.72 cM

**Gene Summary:** Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca(2+)/calmodulin levels (PubMed:9662407, PubMed:7816821). May be involved in regulatory processes in the central nervous system (PubMed:9662407). May play a role in memory and learning (PubMed:7816821). Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (PubMed:24048828). [UniProtKB/Swiss-Prot Function]