

Product datasheet for MR217895L1

Actr3 (NM_023735) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Actr3 (NM_023735) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Actr3

Synonyms: 1200003A09Rik; Arp3

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

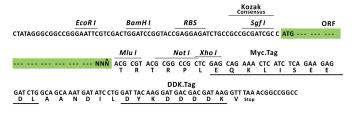
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR217895).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.



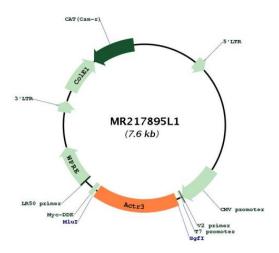
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Plasmid Map:



ACCN: NM_023735 **ORF Size:** 1254 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 023735.2, NP 076224.1

RefSeq Size: 2746 bp RefSeq ORF: 1257 bp



Actr3 (NM_023735) Mouse Tagged Lenti ORF Clone - MR217895L1

 Locus ID:
 74117

 UniProt ID:
 Q99]Y9

 Cytogenetics:
 1 E2.3

Gene Summary: ATP-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin

polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. Seems to contact the pointed end of the daughter actin filament. In addition to

its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin

polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA. The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-

strand breaks (DSBs). Plays a role in ciliogenesis.[UniProtKB/Swiss-Prot Function]