

Product datasheet for MR218007L3

Stk36 (NM_175031) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Stk36 (NM_175031) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Stk36

Synonyms: 1700112N14Rik; B930045J24; FU; Fused; mKIAA1278

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

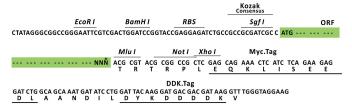
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR218007).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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



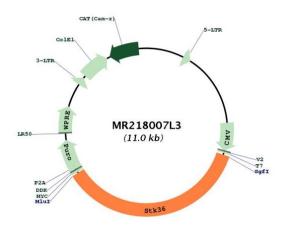
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Plasmid Map:



ACCN: NM_175031 **ORF Size:** 3948 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: <u>NM 175031.3</u>, <u>NP 778196.2</u>

RefSeq Size: 5329 bp **RefSeq ORF:** 3951 bp



Stk36 (NM_175031) Mouse Tagged Lenti ORF Clone - MR218007L3

 Locus ID:
 269209

 UniProt ID:
 Q69ZM6

 Cytogenetics:
 1 C4

Gene Summary: Serine/threonine protein kinase which plays an important role in the sonic hedgehog (Shh)

pathway by regulating the activity of GLI transcription factors. Controls the activity of the transcriptional regulators GLI1, GLI2 and GLI3 by opposing the effect of SUFU and promoting

their nuclear localization. GLI2 requires an additional function of STK36 to become

transcriptionally active, but the enzyme does not need to possess an active kinase catalytic site for this to occur. Required for postnatal development, possibly by regulating the homeostasis of cerebral spinal fluid or ciliary function. Essential for construction of the

central pair apparatus of motile cilia.[UniProtKB/Swiss-Prot Function]