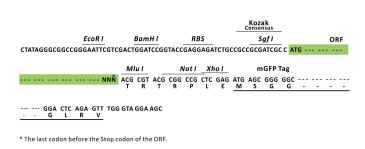


Product datasheet for MR218174L4

Taok1 (NM_144825) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: Taok1 (NM 144825) Mouse Tagged Lenti ORF Clone Tag: mGFP Symbol: Taok1 Synonyms: 2810468K05Rik; AU020252; D130018F14Rik; Map3k16; Markk; mKIAA1361; Psk2 **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(MR218174). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: ORF Size: NM_144825 3003 bp

OriGene Technologies, Inc.

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| GRIGENE Taok1 (NM_144825) Mouse Tagged Lenti ORF Clone – MR218174L4 | |
|--|--|
| 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. <u>More info</u> |
| 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: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 144825.2</u> |
| RefSeq Size: | 12411 bp |
| RefSeq ORF: | 3006 bp |
| Locus ID: | 216965 |
| UniProt ID: | <u>Q5F2E8</u> |
| Cytogenetics: | 11 B5 |
| Gene Summary: | Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress- activated MAPK cascade, DNA damage response and regulation of cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress- activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating 'Thr-208' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, |

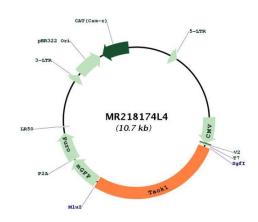
membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade

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(By similarity).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR218174L4

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