

Product datasheet for MR217612L4

OriGene Technologies, Inc.

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Sh3pxd2a (NM_008018) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sh3pxd2a (NM_008018) Mouse Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Sh3pxd2a

Synonyms: 2310014D11Rik; AA589508; Al256723; Al413738; C230050L11; EG329070; Fish; Gm5098;

Sh3md1

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

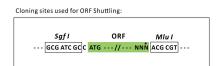
ORF Nucleotide

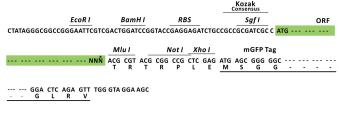
The ORF insert of this clone is exactly the same as(MR217612).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



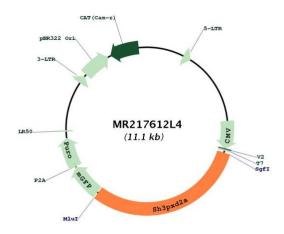


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_008018 **ORF Size:** 3372 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 008018.4</u>, <u>NP 032044.2</u>

RefSeq Size: 10464 bp RefSeq ORF: 3375 bp Locus ID: 14218



Sh3pxd2a (NM_008018) Mouse Tagged Lenti ORF Clone - MR217612L4

 UniProt ID:
 O89032

 Cytogenetics:
 19 C3

Gene Summary: Adapter protein involved in invadopodia and podosome formation, extracellular matrix

degradation and invasiveness of some cancer cells. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS

localization. In association with ADAM12, mediates the neurotoxic effect of amyloid-beta

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