

Product datasheet for MR223290

Shank1 (NM_001034115) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Shank1 (NM_001034115) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Shank1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR223290 representing NM_001034115
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCCCGATCGCC

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Protein Sequence: >MR223290 representing NM_001034115
 Red=Cloning site Green=Tags(s)

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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9107_c09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001034115

ORF Size: 6501 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_001034115.1](#), [NP_001029287.1](#)

RefSeq Size: 7596 bp

RefSeq ORF: 6504 bp

Locus ID: 243961

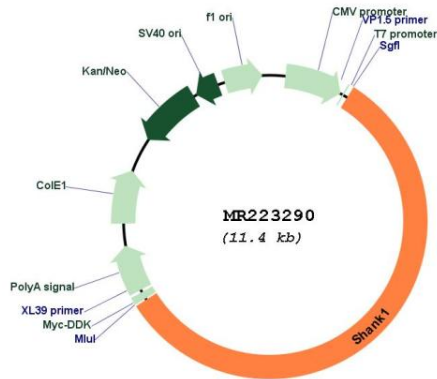
UniProt ID: [D3YZU1](#)

Cytogenetics: 7 B3

MW: 226.3 kDa

Gene Summary: Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors, and the actin-based cytoskeleton. Plays a role in the structural and functional organization of the dendritic spine and synaptic junction. Overexpression promotes maturation of dendritic spines and the enlargement of spine heads via its ability to recruit Homer to postsynaptic sites, and enhances presynaptic function (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223290