

## Product datasheet for **SC333299**

### SHANK3 (NM\_033517) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SHANK3 (NM\_033517) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SHANK3  
**Synonyms:** DEL22q13.3; PROSAP2; PSAP2; SCZD15; SPANK-2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333299 representing NM\_033517.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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CAGGTGGTGGCTCTGATTCGCCAGGGTGGCAACCGCCTCGTCATGAAGTTGTGTCTGTGACAAGGAAG  
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**Restriction Sites:** SgfI-NheI  
**ACCN:** NM\_033517

<b>Insert Size:</b>	5196 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_033517.1</a>
<b>RefSeq Size:</b>	7113 bp
<b>RefSeq ORF:</b>	5196 bp
<b>Locus ID:</b>	85358
<b>Cytogenetics:</b>	22q13.33
<b>MW:</b>	184.7 kDa
<b>Gene Summary:</b>	<p>This gene is a member of the Shank gene family. Shank proteins are multidomain scaffold proteins of the postsynaptic density that connect neurotransmitter receptors, ion channels, and other membrane proteins to the actin cytoskeleton and G-protein-coupled signaling pathways. Shank proteins also play a role in synapse formation and dendritic spine maturation. Mutations in this gene are a cause of autism spectrum disorder (ASD), which is characterized by impairments in social interaction and communication, and restricted behavioral patterns and interests. Mutations in this gene also cause schizophrenia type 15, and are a major causative factor in the neurological symptoms of 22q13.3 deletion syndrome, which is also known as Phelan-McDermid syndrome. Additional isoforms have been described for this gene but they have not yet been experimentally verified. [provided by RefSeq, Mar 2012]</p>