

Product datasheet for **SC331983**

DENND5A (NM_001243254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND5A (NM_001243254) Human Untagged Clone
Tag:	Tag Free
Symbol:	DENND5A
Synonyms:	DEE49; EIEE49; RAB6IP1
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331983 representing NM_001243254. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001243254
Insert Size:	3726 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001243254.1</u>
RefSeq Size:	4945 bp

RefSeq ORF: 3726 bp
Locus ID: 23258
UniProt ID: Q6IQ26
Cytogenetics: 11p15.4
MW: 142 kDa

Gene Summary: This gene encodes a DENN-domain-containing protein that functions as a RAB-activating guanine nucleotide exchange factor (GEF). This protein catalyzes the conversion of GDP to GTP and thereby converts inactive GDP-bound Rab proteins into their active GTP-bound form. The encoded protein is recruited by RAB6 onto Golgi membranes and is therefore referred to as RAB6-interacting protein 1. This protein binds with RAB39 as well. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Mutations in this gene are associated with early infantile epileptic encephalopathy-49. [provided by RefSeq, Feb 2017]
Transcript Variant: This variant (2) uses an alternate donor splice site at the penultimate coding exon compared to variant 1. This results in a frame-shift, and a shorter isoform (2) with a distinct C-terminus compared to isoform 1.