

# **Product datasheet for SC327370**

#### OriGene Technologies, Inc.

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## alpha Synuclein (SNCA) (NM\_001146054) Human Untagged Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** alpha Synuclein (SNCA) (NM\_001146054) Human Untagged Clone

Tag: Tag Free Symbol: SNCA

Synonyms: NACP; PARK1; PARK4; PD1

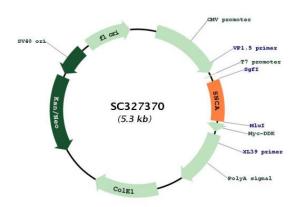
Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

**Restriction Sites:** Sgfl-Mlul

Plasmid Map:



**ACCN:** NM\_001146054

**Insert Size:** 423 bp



### alpha Synuclein (SNCA) (NM\_001146054) Human Untagged Clone - SC327370

**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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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 001146054.1</u>

RefSeq Size:3211 bpRefSeq ORF:423 bpLocus ID:6622

Cytogenetics: 4q22.1

UniProt ID:

**Protein Families:** Druggable Genome

**Protein Pathways:** Alzheimer's disease, Parkinson's disease

P37840

**MW:** 14.5 kDa

Gene Summary: Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-

synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and

membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of

Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Alternatively spliced transcripts encoding different isoforms

have been identified for this gene. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all encode the same isoform (NACP140). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record

were based on transcript alignments.