

Product datasheet for **SC331571**

Ankyrin G (ANK3) (NM_001204404) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankyrin G (ANK3) (NM_001204404) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANK3
Synonyms:	ANKYRIN-G; MRT37
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331571 representing NM_001204404. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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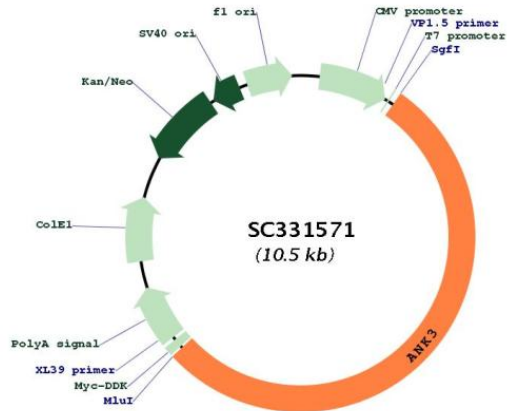
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Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_001204404

Insert Size: 5607 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: [NM_001204404.1](#)

RefSeq Size: 9599 bp

RefSeq ORF: 5607 bp

Locus ID: 288

UniProt ID: [Q12955](#)

Cytogenetics: 10q21.2

Protein Families: Druggable Genome

MW: 204.1 kDa

Gene Summary: Ankyrins are a family of proteins that are believed to link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact, and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 3 is an immunologically distinct gene product from ankyrins 1 and 2, and was originally found at the axonal initial segment and nodes of Ranvier of neurons in the central and peripheral nervous systems. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]

Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, initiates translation at an alternate start codon, and lacks an alternate in-frame exon compared to variant 1. The encoded protein (isoform 4) has a distinct N-terminus and is considerably shorter than isoform 1. 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.