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Product datasheet for SC331570

Ankyrin G (ANK3) (NM_001204403) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ankyrin G (ANK3) (NM_001204403) Human Untagged Clone

Tag: Tag Free

Symbol: ANK3

Synonyms: ANKYRIN-G; MRT37

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC331570 representing NM_001204403.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCCTCCTCCGCCTCCTCCTCTCCCGCGGGCACCGAGGACTCCGCTCCTGCCCAGGGTGGCTTTGGA
TCAGATTATTCACGAAGCTCTAGAAAGTCTGATGCCAATGCAAGTTACTTAAGAGCAGCTCGAGCTGGA
CACCTTGAAAAGGCCCTCGACTACATAAAAAATGGAGTTGACATCAACATTTGCAATCAGAATGGGTTG
AACGCTCTCCACCTTGCTTCCAAAGAAGGCCATGTAGAGGTTGTTTCTGAGCTGCTGCAGAGAGAAGCC
AATGTGGATGCAGCTACAAAGAAAGGAAACACAGCATTGCACATCGCATCTTTGGCTGGGCAAGCAGAG
GTGGTAAAAGTCTTGGTTACAAATGGAGCCAATGTCAATGCACAATCTCAGAATGGTTTCACGCCATTG
TATATGGCAGCCCAGGAAAATCACCTGGAAGTTGTCAAGTTTCTTCTTGACAATGGTGCAAGCCAGAGC
CTAGCCACAGAGGATGGCTTCACACCATTGGCAGTGGCTTTGCAACAAGGTCACGACCAAGTCGTTTCG
CTCCTGCTAGAGAATGACACCAAAGGAAAAGTGCGTCTCCCAGCTCTTCATATCGCGGCCCGAAAAGAC
GACACGAAAGCCGCCGCCCTGCTGCTGCAGAATGACAACAATGCAGATGTGGAATCAAAGAGTGGCTTC
ACTCCGCTCCACATAGCTGCTCACTATGGAAATATCAATGTAGCCACGTTGCTGTTAAACCGAGCGGCT
GCTGTGGATTTCACCGCAAGGAATGACATCACTCCTTTACATGTTGCATCAAAAAGAGGAAATGCAAAT
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CACTGTGGAGCAAGGAGTGGCCACGAGCAGGTGGTAGAAATGTTGCTTGATCGAGCTGCCCCCATTCTT
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CTGAATGGCTTTACCCCTCTTCATATTGCCTGCAAGAAGAATCGAATTAAAGTAATGGAACTCCTTCTG
AAACACGGTGCATCCATCCAAGCTGTAACCGAGTCGGGCCTTACCCCAATCCATGTTGCTGCCTTCATG
GGGCATGTAAATATTGTATCACAACTAATGCATCATGGAGCCTCACCAAACACCACCAATGTGAGAGGA
GAAACAGCACTGCACATGGCAGCTCGCTCCGGCCAAGCTGAAGTTGTGCGGTATCTGGTACAAGACGGA
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CTTCACCTTTCCGCCCGAGAGGGGCATGAGGATGTGGCCGCGTTCCTTTTGGATCATGGAGCGTCTTTA
TCTATAACAACAAAGAAAGGATTTACTCCTCTTCATGTGGCAGCAAAATATGGAAAGCTTGAAGTCGCC
AATCTCCTGCTACAGAAAAGTGCATCTCCAGATGCTGCTGGGAAGAGCGGGCTAACACCACTGCATGTA
GCTGCACATTACGATAATCAGAAAGTGGCCCTTCTGCTTTTGGACCAAGGAGCCTCACCTCACGCAGCC
GCAAAGAATGGTTATACGCCACTGCACATCGCTGCCAAAAAGAACCAGATGGACATAGCGACAACTCTG

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CTGGAATATGGTGCTGATGCCAACGCAGTTACCCGGCAAGGAATTGCTTCCGTCCATCTCGCAGCTCAG
GAAGGGCACGTGGACATGGTGTCGCTGCTCCTCGGTAGAAATGCGAATGTGAACCTGAGCAATAAGAGC
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GGGGCTCATGTGGACGCCCAGACAAAGATGGGATACACACCACTGCATGTGGGCTGCCACTATGGAAAT
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CCCAATGAACTCACTGTGAATGGGAATACTGCCCTTGGCATTGCCCGGCGCCTCGGCTACATCTCAGTA
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TTTGCAGTGGTTTCCCGGATTAAGCAGGAAAGCAACCAGATTGGTCCTGAAGGTGGAATTCTGAGCAGC
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CAGGCCCAGCCTGTTCCAGATGAAATTGTGAAAAAGATCCTTGGAAACAAAGCAACTTTTAGCCCAATT
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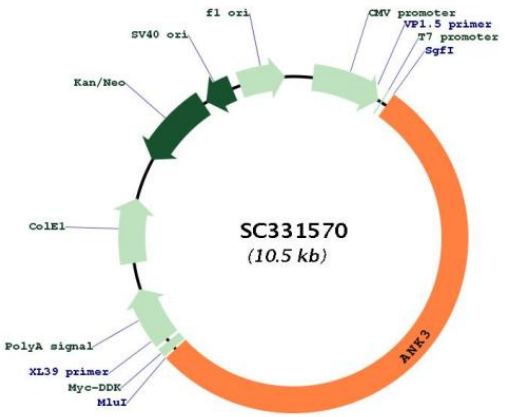
CATGGATCTGGTCATGTTGAAGAACCAGCATCACCACTAGCAGCATATCAGAAATCTCTAGAAGAAACC
AGCAAGCTTATAATAGAAGAGACTAAACCCTGTGTGCCTGTCAGTATGAAAAAGATGAGTAGGACTTCT
CCAGCAGATGGCAAGCCAAGGCTTAGCCTCCATGAAGAAGAGGGGTCCAGTGGGTCTGAGCAAAAGCAG

GGAGAAGGTTTTAAGGTGAAAACGAAGAAAGAAATCCGGCATGTGGAAAAGAAGAGCCACTCGTAA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001204403

Insert Size: 5586 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_001204403.1
RefSeq Size:	9356 bp
RefSeq ORF:	5586 bp
Locus ID:	288
UniProt ID:	Q12955
Cytogenetics:	10q21.2
Protein Families:	Druggable Genome
MW:	202.6 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 (3) 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 3) 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.