

Product datasheet for **SC310013**

Ankyrin G (ANK3) (NM_001149) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ankyrin G (ANK3) (NM_001149) Human Untagged Clone
Tag: Tag Free
Symbol: ANK3
Synonyms: ANKYRIN-G; MRT37
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001149, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTTACCGCAGAGTGAAGATGCAATGACCGGGGACACAGACAAATATCTTGGGCCA
CAGGACCTTAAGGAATTGGGTGATGATTCCCTGCCTGCAGAGGGTTACATGGGCTTAGT
CTCGGAGCGCTTCTGCCAGCCTCCGCTCCTTCAGTTCGGATAGGTCTTACACCTTGAAC
AGAAGCTCCTATGCACGGGACAGCATGATGATTGAAGAACTCCTTGTCCATCCAAAGAG
CAGCATTAACATTCACAAGGGAATTTGATTTCAGATTCTTTAGACATTACAGCTGGGCT
GCAGACACCTTAGACAATGTCAATCTTGTTCAGCCCCATTCTTCTGGGTTTCTGGTT
AGCTTTATGGTGGACGCGAGAGGGGCTCCATGAGAGGAAGCCGTCATCACGGGATGAGA
ATCATATTCTCCACGCAAGTGTACGGCCCCACTCGAATCACCTGCCGTTTGGTAAAG
AGACATAAACTGGCCAACCCACCCCATGGTGAAGGAGAGGGATTAGCCAGTAGGCTG
GTAGAAATGGGTCTGCAGGGGCACAATTTTAGGCCCTGTCATAGTGGAAATCCCTCAC
TTTGGGTCATGAGAGGAAAAGAGAGAACTCATTGTTCTTGAAGTAAAAATGGTGAA
ACTTGAAGGAGCATCAGTTTGACAGCAAAAATGAAGATTTAACCGAGTTACTTAATGGC
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ATTGGTCCTGAAGTGGAATTCTGAGCAGCACCCAGTGCCCTTGTTCAGCATCTTTC
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CCAAGAAGACGGAAATCCATAACCAATCACAATGACCATTCCGGTGCCCCGCGCTCA
GGAGAAGGTGATCCAATGGATACAAAGGGGACACTACACCCAATCTGCGTCTTCTGTG
AGCATTACAGGGGCACTTCGCCTGCTCAGTGGGAAGACATCACAGGAACAACCTCTTGG
ACGTTTATAAAAGATTGTGTCCTTTACAACCAATGTTTCAGCCAGATTTTGGCTTGCA
GACTGCCATCAAGTTTTAGAAACTGTGGGGTTAGCCACGCAACTGTACAGAGAATTGATA
TGTGTTCCATATATGGCCAAGTTTGTGTTTTTGGCAAAATGAATGATCCCGTAGAATCT
TCCTTGCGATGTTTCTGCATGACAGATGACAAAAGTGGACAAAACCTTAGAGCAACAAGAG
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TTTTATTCTTTCAAAGAAAATAGACTGCCATTTTCCATCAAGATTAGAGACACCAGCCAA
GAGCCCTGTGGTCTGTCTTTTCTGAAAAGAACCAAGACAACAAAAGGACTGCCTCAA
ACAGCGGTTTGAACCTAAATATCACTCTGCCAGCACATAAAAAGATTGAGAAAACAGAT

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AGACGACAGAGCTTCGCATCCTTAGCTTTACGTAAGCGCTACAGCTACTTGACTGAGCCT
GGAATGAGTCCACAGAGTCCATGTGAACGGACAGATATCAGGATGGCAATAGTAGCCGAT
CACCTGGGACTTAGTTGGACAGAACTGGCAAGGGAAGTGAATTTTTTCAGTGGATGAAATC
AATCAAATACGTGTGGAAAAATCCAAATCTTTAATTTCTCAGAGCTTCATGTTATAAAA
AAATGGTTACCAGAGACGGAAAAATGCCACAAGTATGACCTTAACCTCGGTCTTGACA
AAAATTAATCGAATAGATATAGTGACACTGCTAGAAGGACCAATATTTGATTATGGAAAT
ATTTGAGCACCAGAAGTTTTGCAGATGAGAACAATGTTTTCCATGACCCTGTTGATGGT
TATCCTTCCCTTCAAGTGGAACTGGAAACCCACAGGGTTGCACTACACACCACCTACC
CCTTTCCAGCAAGATGATTATTTTAGTGATATCTCTAGCATAGAATCTCCCTTAGAACC
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GCATCACCCTAGCAGCATATCAGAAATCTCTAGAAGAAACCAGCAAGCTTATAATAGAA
GAGACTAAACCCTGTGTGCCTGTGAGTATGAAAAAGATGAGTAGGACTTCTCCAGCAGAT
GGCAAGCAAGGCTTAGCCTCCATGAAGAAGAGGGGTCCAGTGGGTCTGAGCAAAAGCAG
GGAGAAGTTTTAAGGTGAAAACGAAGAAAGAAATCCGGCATGTGAAAAAGAAGGCCAC
TCGTAA

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Restriction Sites:	Please inquire
ACCN:	NM_001149
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:	<ol style="list-style-type: none"> 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_001149.2</u> , <u>NP_001140.2</u>
RefSeq Size:	5072 bp
RefSeq ORF:	3006 bp
Locus ID:	288

UniProt ID:	Q12955
Cytogenetics:	10q21.2
Domains:	ZU5, ANK
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) has multiple differences in the 5' UTR and coding sequence compared to variant 1, resulting in an isoform (2) which is considerably shorter and different compared to 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.</p>