

Product datasheet for **SC304775**

ANK1 (NM_020476) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ANK1 (NM_020476) Human Untagged Clone
Tag: Tag Free
Symbol: ANK1
Synonyms: ANK; SPH1; SPH2
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_020476, the custom clone sequence may differ by one or more nucleotides

```

ATGCCCTATTCTGTGGGCTTCCGCGAAGCCGATGCTGCTACCAGCTTTCTGAGAGCAGCA
AGATCAGGTAACCTGGACAAAGCTTTGGATCACCTGCGGAATGGGGTAGATATTAACACC
TGTAACCAAGAATGGGTTGAATGGCTTGCATCTGGCTTCTAAGGAAGGCCATGTGAAAATG
GTGGTTGAACTTCTGCACAAAGAAATCATTCTAGAAACGACAACCAAGAAGGGGAACAGC
GCCCTGCACATCGCTGCTCTAGCCGGGCAGGATGAGGTGGTCCGGGAGCTTGTCAACTAT
GGAGCCAACGTCAACGCCAGTCACAGAAAGTTTTACACCCCTGTACATGGCAGCACAA
GAGAACCACCTTGAAGTGGTTAAGTTTTACTGGAATAATGGAGCTAACCAAGATGTAGCC
ACAGAAGACGGCTTACGCCTCTGGCGGTAGCCCTGCAGCAGGGCCATGAGAACGTGCTC
GGCACCTCATCAACTACGGCACCAAGGGGAAGGTGCGCCTCCCGGCCCTGCACATCGCG
GCCCGCAACGACGACACGCGCACGGCTGCGGTGCTGCTGCAGAACGACCCCAACCCGGAC
GTGCTTTCCAAGACGGGATTCACGCCCTGCACATTGCGGCTCACTACGAGAACCTCAAC
GTGGCCAGTTGCTCCTCAACAGAGGAGCCAGCGTCAATTTACACCACAGAACGGCATC
ACGCCACTGCACATCGCTCCCGCAGGGGCAACGTGATCATGGTGGGCTGCTGCTGGAT
CGGGGAGCCCAGATAGAAACCAAGACCAAGGACGAATTGACACCTCTCCACTGTGCAGCT
CGAAATGGGCACGTGCGAATCTCAGAGATCCTGCTGGACCACGGGGCACCAATCCAAGCC
AAAACCAAGAACGGCCTGTCCCAATTCACATGGCGGCTCAGGGAGACCACCTCGACTGT
GTCCGGCTCCTGTTGCAATACGACGCAGAGATAGACGACATCACCTGGACCACCTGACC
CCTCCACGTGGCTGCCACTGTGGACACCACAGGGTGGCTAAGGTCTTCTGGATAAA
GGGGCCAAACCAACTCCAGAGCCCTGAATGGCTTTACCCCTTACACATCGCTGCAAA
AAGAACCACGTCCGTGTCATGGAGCTGCTGCTGAAGACGGGAGCCTCGATCGACGGGTC
ACCGAGTCTGGCCTGACACCTCTCCACGTGGCCTCCTTATGGGGACCTTCCCATCGTG
AAGAACCCTCTGCAGCGGGGGCGTCGCCAACGTCTCCAACGTGAAAGTGGAGACCCCG
CTACACATGGCAGCCAGGCCGGGCACACGGAAGTGGCCAAATATTTACTCCAGAACAAA
GCCAAAGTCAATGCCAAGCCAAGGATGACCAGACCCACTTCACTGTGCAGCTCGCATC
GGCCACACAAACATGGTGAAGCTCCTGCTGGAATAAACGCCAACCCCAACCTGGCCACC
ACCGCCGGGCACACCCCTGCACATTGCAGCCGTGAGGGCCATGTGGAACAGTCTGTG
GCCCTTCTGGAAGGAAGCATCCAGGCCTGCATGACCAAGAAAGGATTTACCCCTCTG
CACGTGGCGGCAAGTACGGGAAGGTGCGGGTGGCAGAGCTGCTGCTGGAGCGGGACGCA
CACCCGAATGCTGCCGAAAAAATGGCCTGACCCCTGCACGTGGCCGTCCATCACAAC

```



[View online »](#)

AACCTGGACATCGTCAAGCTGCTGCTTCCCCGGGGCGGCTCCCCGCACAGCCCTGCCTGG
AATGGCTACACCCCTTTGCACATCGCTGCCAAGCAGAACCAGGTGGAGGTGGCCCGTAGT
CTGCTGCAGTATGGGGGCTCAGCAAACGCCGAGTCGGTGCAAGGTGTGACGCCCTTAC
CTGGCCGCCCAGGAGGGCCACGCAGAGATGGTGGCTCTGCTGCTCTGAAACAAGCCAAT
GGCAACCTGGGGAACAAGAGCGGACTCACTCCCCTCCATCTGGTAGCACAAGAAGCCAC
GTTCCAGTGGCAGATGTGCTGATCAAACACGGCGTCATGGTGGACGCCACCACCCGGATG
GGCTACACTCCCCTCCATGTGGCCAGTCACTATGGAACATCAAGCTGGTGAAGTTCTG
CTGCAGCACCCAGGCAGATGTCAATGCCAAGACCAAGCTAGGATACAGCCCCTGCACCAG
GCAGCCCAGCAGGGACACACAGACATCGTGAATCTGCTTCTGAAAAACGGTGCTTCCCCA
AACGAGGTGAGCTCGGATGGAACCAACCTCTGGCCATAGCCAAGCGCTTGGGCTACATT
TCTGTACCCGACGTGCTCAAGGTCGTACGGATGAAACCAGTTTCGTGTTAGTCAGTGAT
AAGCATCGAATGAGTTTCCCTGAGACAGTTGATGAGATCTGGATGTCTCGGAAGATGAA
GGGAAGAAGTCACTCAGTTCAAGGCTGAGAGGCGGGATTCCAGGGATGTTGATGAAGAG
AAGGAGCTGCTGGATTTTGTGCCGAAGCTAGACCAAGTGGTGAATCTCCAGCCATCCCC
AGGATTCCTGTGCCATGCCTGAGACAGTGGTGTATCAGGTCAGAAGAGCAGGAGCAGGCA
TCTAAAGAGTATGATGAGGACTCCCTCATCCCCAGCAGCCCGGCCACCGAGACCTCAGAC
AACATCAGCCCAGTGGCCAGCCCGGTGCATACAGGGTTTCTGGTGAAGTTTCTGTTGAC
GCCCGGGTGGTTCCATGAGAGGAAGTGCACAAACGGCCTGCGAGTGGTGTATCCCGCA
CGGACGTGCGCAGCGCCACCCGCATCACTGCCGCTGGTCAAGCCCCAGAAGCTCAGC
ACGCCGCCCCACTGGCCGAGGAGGAGGGCCTGGCCAGCAGGATCATAGCACTGGGGCCC
ACGGGGGCACAGTTTCTGAGCCCTGTAATCGTGGAGATCCCGCACTTTCCTCCATGGC
CGTGGAGACCCGAGCTCGTGGTTCTGAGGAGCGAAAACGGCTCCGTGTGGAAGGAGCAC
AGGAGCCGCTATGAGAGAGCTACCTGGATCAGATCCTCAACGGGATGGACGAAGAGCTG
GGGAGCCTGGAGGAGCTAGAGAAGAAGGGGTGCGCCAATCATACCACCGACTTCCCCG
CTGTACTTCTGTGATCATGTACGGCTCTGCCAGGACTACGACACCATCGGTCCCCAAGGG
GGCTCCCTGAAGAGCAAGCTGGTGGCCCTGGTACAGGCAACGTTCCCGGAGAATGCCGTC
ACCAAGAGAGTGAAGCTGGCTCTGCAGGCCAGCCTGTCCCGGATGAGCTTGTACTAAG
CTCCTGGGCAACCAGGCCACATTAGCCCCATTGTACCCGTGGAGCCCCGGCGCCGAAG
TTCCACCGCCCCATTGGGCTTCGGATCCCACTACCTCCTTCTGGACCGACAACCCGAGG
GACAGCGGGGAGGAGACACCACAGCCTGCGCCTGCTTTGCAGCGTCATTGGAGGAACA
GACCAAGCCAGTGGGAAGACATAACAGGAACCAAACTTGTATATGCCAACGAGTGC
GCCAATTCACCCCAATGTCTCTGCCAGGTTTTGGCTGTGCGACTGTCTCGGACTGCT
GAGGCTGTGAACCTTGGCCACCCTGCTGTACAAAGAGCTCACTGCAGTGCCTACATGGCC
AAATTCGTCACTTTGCCAAGATGAATGACCCCGAGAGGGGGCGCCTGCGCTGCTACTGC
ATGACAGATGATAAAGTGGACAAGACCCTGGAGCAGCATGAGAATTCGTGGAGGTGGCC
CGGAGCAGGGACATAGAGGTGTTGGAAGGAATGTCCCTGTTTGCAGAATCTCTGGGAAC
CTGGTGCCTGTGAAGAAAGCTGCCAGCAGCGGAGCTTCCACTCCAGTCATTTCCGGAG
AACCGTCTGGCCATGCCTGTAAGGTGAGGACAGCAGTCGAGAGCCGGGAGGGTCCCTG
TCGTTTTCTGCCAAGGCATGAAGTACGAGGACACCCAGCACATTCTCTGCCACCTGAAC
ATCACCATGCCCCCTGCGCCAAGGGAAGTGGAGCCGAAGATAGGAGAAGGACCCCGAGC
CCCCTGGCCCTGCGATACAGATTCTCAGTGAGTCCACACCAGGTTCTCTCAGTGGGACA
GAGCAGGCAGAGATGAAGATGGCTGTTATCTCAGAGCACCTCGGTCTCAGCTGGGCAGAG
TTGGCCCCGGAGCTGCAGTTCAGTGTGGAAGACATCAACAGGATCCGAGTGGAAAATCCC
AACTCCCTGTTGGAGCAGAGTGTGGCCTTGCTGAACCTCTGGGTCATCCGTGAAGGCCAA
AACGCAACATGGAGAATCTGTACACAGCCCTGCAGAGCATTGACCGTGGCGAGATCGTG
AACATGCTGGAGGTTCCGGCCGACAGAGCCGCAACTTGAAGCCAGACAGCGGCACACC
GACCGCGACTACTCGCTGTACCCTCCCAGATGAATGGTTACTCCTCACTGCAGGACGAG
CTGCTGTCCCCTGCCTCCCTGGGCTGTGCACTTTCCTCTCCGCTACGTGCAGACCAGTAC
TGGAAATGAGGTGGCCGCTCTAGACGCCATCCCCTTGGCGGCCACGGAGCATGACACCATG
CTGGAGATGTCTGACATGCAGGTGTGGTCTGCGGGCCTCACGCCTTCTCTGGTCACTGCT
GAGGACTCCTCTCTGGAGTGTAGCAAGGCTGAGGACTCTGATGCCACAGGTACAGAGTGG
AAGTTGGAGGGGGCACTCTCAGAGGAACCGGGGGCCCGAGTTGGGCTCTCTGGAATTT

GTGGAGGACGACACAGTGGATTCAGATGCCACAAATGGCCTTATCGATTTGCTTGAACAG
GAGGAAGGTCAGAGGTCAGAAGAGAAGCTGCCAGGTTCTAAGAGGCAGGATGACGCGACA
GGTGCAGGGCAGGACTCAGAGAAATGAAGTGTCTTTGTTTCAGGCCATCAGAGGGGGCAA
GCCCGAATCACACATTCACCGTGTGAGTCAGGTGACGGAGAGGAGTCAGGACAGACTG
CAGGACTGGGATGCAGACGGCTCGATTGTCTCATACCTGCAAGATGCTGCACAAGTTCC
TGGCAAGAGGAGGTCACGCAAGGTCCACACTCATTCCAGGGAACAAGTACCATGACTGAA
GGGCTAGAGCCCCGGTGGATCTCAGGAGTACGAGAAGGTCCTGGTGTCTGTAAGTGAGCAC
ACGTGGACAGAACAGCCCCGAGGCTGAGAGCTCCCAGGCCGACAGGGACCGGAGGCAGCAA
GGCCAAGAAGAGCAGGTGCAAGGAGGCCAAGAACCTTACCCAAAGTGGTGCAGGGGAAT
GAGTTTCAGAATATTCCAGGGGAGCAGGTGACAGAGGAGCAATTCACGGATGAGCAGGGC
AACATTGTACCAAGAAGATCATTGCAAGGTGGTTTCGACAGATAGACTTGTCCAGCGCC
GATGCCCGCCAGGACACGAGGAGGTGACTGTAGAGGGGCCCTGGAGGATCCCAGTGAG
CTGGAGGTCGATATTGATTACTTTATGAAACACTCCAAGGATCACACCTCGACACCCAAC
CCCTGA

Restriction Sites:	Please inquire
ACCN:	NM_020476
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:	NM_020476.2 , NP_065209.2
RefSeq Size:	8240 bp
RefSeq ORF:	5646 bp
Locus ID:	286
UniProt ID:	P16157
Cytogenetics:	8p11.21
Protein Families:	Transmembrane

Gene Summary:

Ankyrins are a family of proteins that 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 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified. [provided by RefSeq, Dec 2008]

Transcript Variant: This variant (1) encodes isoform 1, also referred to as isoform 2.1.