

## Product datasheet for **SC310424**

### ANKS1B (NM\_020140) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANKS1B (NM_020140) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKS1B
Synonyms:	AIDA; AIDA-1; ANKS2; cajalin-2; EB-1; EB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310424 representing NM_020140. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGTGGCAATGCCACCTCTCAGCCCAGGACTACCGCTATTACCCCGTGGACGGCTACTCCCTGCTT
AAACGTTCCCTCTTCATCCTCTACAGGACCCAGATGCCCTGTCCAAACAGTGGGACAATGGTTGGAA
AGCATTGGGCTACCTCAGTACGAGAACCACCTGATGGCTAATGGATTTGACAATGTGCAGTTTATGGGA
AGCAATGTTATGGAAGATCAGGATTTGTTGAAATTTGGAATCCTTAATTCTGGGCACAGACAAAGAATT
CTACAGGCAATCCAGCTCCTTCCAAAGATGAGACCCATTGGGCATGATGGCTACCATCCCACCTCTGTA
GCTGAGTGGCTGGATTCCATTGAACTGGGCGACTACACCAAAGCCTTTCTAATTAATGGCTACACTTCG
ATGGACCTGTTGAAAAAATCTGGGAGGTTGAACTTATTAATGTTTTAAAAATCAATTTGATTGGCCAC
AGGAAACGTATTTTGGCATCTCTGGGAGACAGGCTGCACGACGATCCCCACAGAAGCCCCCTCGGTCC
ATCACCTCAGGACAGGAGACTGGGAGAACCTTCCATTACCTTGCGACCTCCGAATGAAGCCACAGCC
TCTACCCCGGTACAGTACTGGCAGCATCACCCAGAAAAGCTTATCTTCCAGTCGTGTGATTACAAAGCT
TTTTATTTAGGTTCTATGCTGATAAAAGAGCTTAGGGGACAGAATCAACCAAGATGCTTGTGCAAAA
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TATAAAGGAGTCAAATTTATTGATGCAACAAATAAGAACATAATTGCTGAGCATGAAATTCGTAATATC
TCCTGTGCTGCCAGGACCCAGAAGACCTCTCAACATTTGCCTATATCACAAAAGATTTGAAGTCTAAT
CACCCTACTGTGATGTTTACTGCCTTTGATGTGAATTTAGCCTATGAAATCATCCTAACCCCTGGGA
CAGGCATTGCAAGTCGCTTACCAGCTAGCACTACAAGCAAGAAAAGGGGGACACTCCTCCACACTTCCA
GAAAGCTTTGAAAACAAACCCTCCAAACCATCCCCAAGCCCCGCTTAGCATTGCAAGTCCGTGGAT
CTTCTTCATGCCAGCCATACCGGCAGGAACCATCAGAGAGACACTGAGGAGGCACTCAGAAAATTT
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>Plasmid Map:</b>	□
<b>ACCN:</b>	NM_020140
<b>Insert Size:</b>	1245 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_020140.3</a></u>
<b>RefSeq Size:</b>	2359 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	56899
<b>UniProt ID:</b>	<u><a href="#">Q7Z6G8</a></u>
<b>Cytogenetics:</b>	12q23.1
<b>Domains:</b>	SAM, PID
<b>MW:</b>	47.1 kDa

**Gene Summary:**

This gene encodes a multi-domain protein that is predominantly expressed in brain and testis. This protein interacts with amyloid beta protein precursor (AbetaPP) and may have a role in normal brain development, and in the pathogenesis of Alzheimer's disease. Expression of this gene has been shown to be elevated in patients with pre-B cell acute lymphocytic leukemia associated with t(1;19) translocation. Alternatively spliced transcript variants encoding different isoforms (some with different subcellular localization, PMID:15004329) have been described for this gene. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (3) differs in the 5' UTR and coding region and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (c) has a shorter and distinct N-terminus and lacks an alternate segment compared to isoform a.