

Product datasheet for **RG211877**

ANKS1B (NM_181670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKS1B (NM_181670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANKS1B
Synonyms:	AIDA; AIDA-1; ANKS2; cajalin-2; EB-1; EB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211877 representing NM_181670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTGGCAATGCCACCTCTCAGCCAGGACTACCGCTATTACCCCGTGGACGGCTACTCCCTGCTTA
 AACGCTTCCCTCTTCATCCTTTACAGGACCCAGATGCCCTGTCCAAACAGTGGGACAATGGTTGGAAAG
 CATTGGGCTACCTCAGTACGAGAACCACCTGATGGCTAATGGATTGACAATGTGCACTTTATGGGAAGC
 AATGTTATGGAAGATCAGGATTTGTTGGAAATTGGAATCCTTAATTCTGGGCACAGACAAAGAATTCTAC
 AGGCAATCCAGCTCCTTCCAAAGATGAGACCCATTGGGCATGATGGCTACCATCCACCTCTGTAGCTGA
 GTGGCTGGATTCCATTGAACTGGGCGACTACACCAAAGCCTTTCTAATTAATGGCTACACTTCGATGGAC
 CTGTTGAAAAAATCTGGGAGGTTGAACTTATAATGTTTTAAAAATCAATTTGATTGGCCACAGGAAAC
 GTATTTTGGCATCTCTGGGAGACAGGCTGCACGACGATCCCCACAGAAGCCCCCTGGTCCATCACCT
 CAGGGAACCCAGTGGTAATCACACTCCTCCTCAGTTGTCTCCATCACTTAGCCAAAGCACTTACACCACT
 GGTGGCTCCCTAGACGTTCTCATTATCATGCAGGGCGATGCAAGGAGGAGAAGAAATGAAACTACT
 TTGATGATATCCCGATCAAACTGGAGAGGCAGATGGCTCAGTCGTCTGTCTGTGAAATATGGACGAA
 TCAGAACGAGGATTTCCCTTCTCAGCGATCCATCAGGTTATAATACAGGAGACTGGGGAGAACCTTCC
 ATTACCTTGCACCTCCGAATGAAGCCACAGCCTTACCCCGGTACAGTACTGGCAGCATCACCCAGAAA
 AGCTTATCTTCCAGTCGTGTGATTACAAAGCTTTTTATTTAGGTTCTATGCTGATAAAAGAGCTTAGGGG
 GACAGAATCAACCAAGATGCTTGTGCAAAAATGCGGGCTAACTGTCAGAAGTCTACAGAGCAATGAAG
 AAGGTCCTACTATTATCTTCTGTCTCATATAAAGGAGTCAAATTTATTGATGCAACAATAAGAACA
 TAATTGCTGAGCATGAAATTCGTAATATCTCCTGTGCTGCCAGGACCCAGAAGACCTCTCAACATTTGC
 CTATATCACAAAAGATTTGAAGTCTAATCACACTACTGTCTCATGTGTTTACTGCCTTTGATGTGAATTTA
 GCCTATGAAATCATCCTAACCTGGGACAGGCATTGGAAGTCGCTTACCAGCTAGCACTACAAGCAAGAA
 AAGGGGGACACTCTCCACACTCCAGAAAAGCTTTGAAAACAAACCTCCAAACCCATCCCCAAGCCCCG
 CGTTAGCATTGCAAGTCCGTGCAGATCGACCCATCTGAGCAAAAGACTCTGGCCAATCTACCGTGGATT
 GTGGAGCCGGCCAAGAAGCCAAGAGGGGCATTAATACCAAGTATGAAACCACGATTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211877 representing NM_181670
 Red=Cloning site Green=Tags(s)

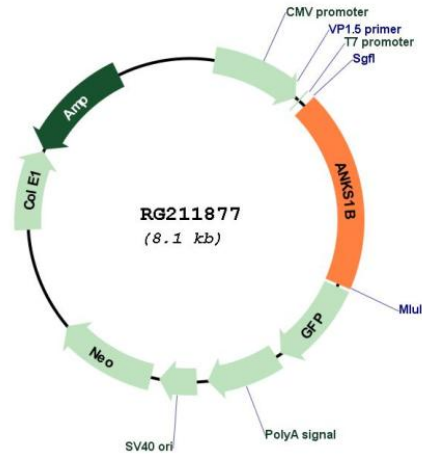
MMWQCHLSAQDYRYYPVDGYSLLKRFPLHPLTGPRCPVQTVGQWLESIGLPQYENHLMANGFDNVQFMGS
 NVMEDQDLEIGILNSGHRQRILQAIQLLPKMRPIGHDGYHPTSVAEWLDSIELGDYTKAFLINGYTSMD
 LLKKIWEVELINVLKINLIGHRKRILASLGDRLHDDPPQKPPRSITLREPSGNHTPPQLSPSLSQSTYTT
 GGSLDVPHIIMQGDARRRRNENYFDDIPRSLERQMAQSSVCEIWTNQNAGFPFSAIHQVHNTGDWGEPS
 ITLRPPNEATASTPVQYQHHPKELIFQSCDYKAFYLGSMLIKELRGTESTQDACAKMRANCQKSTEQMK
 KVPTIILSVSYKGVKFDATNKNIIAEHEIRNISCAAQDPEDLSTFAYITKDLKSNHHYCHVFTAFDVNL
 AYEIILTLGQAFEVAYQLALQARKGGHSSTLPESFENKPSKPIPKPRVSIKRSVQIDPSEQTLANLPWI
 VEPGQEAARGINTKYETTIF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_181670

ORF Size: 1530 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_181670.4](#)

RefSeq Size: 3287 bp

RefSeq ORF: 1533 bp

Locus ID: 56899

UniProt ID: [Q7Z6G8](#)

Cytogenetics: 12q23.1

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]