

## Product datasheet for **RG222572**

### ANKS1B (NM\_020140) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ANKS1B (NM_020140) 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)
ORF Nucleotide Sequence:	>RG222572 representing NM_020140 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTGGCAATGCCACCTCTCAGCCCAGGACTACCGCTATTACCCCGTGGACGGCTACTCCCTGCTTA  
AACGCTTCCCTCTTCATCCTCTTACAGGACCCAGATGCCCTGTCCAAACAGTGGGACAATGGTTGGAAAG  
CATTGGGCTACCTCAGTACGAGAACCACCTGATGGCTAATGGATTTGACAATGTGCAGTTTATGGGAAGC  
AATGTTATGGAAGATCAGGATTTGTTGAAATTGGAATCCTTAATTCTGGGCACAGACAAAGAATTCTAC  
AGGCAATCCAGCTCCTTCAAAGATGAGACCCATTGGGCATGATGGCTACCATCCACCTCTGTAGCTGA  
GTGGCTGGATTCCATTGAACTGGGCGACTACACCAAAGCCTTTCTAATTAATGGCTACACTTCGATGGAC  
CTGTTGAAAAAATCTGGGAGGTTGAACTTATTAATGTTTTAAAAATCAATTTGATTGGCCACAGGAAAC  
GTATTTTGGCATCTCTGGGAGACAGGCTGCACGACGATCCCCACAGAAGCCCCCTCGGTCCATCACCCCT  
CAGGACAGGAGACTGGGAGAACCTTCCATTACCTTGGCAGCTCCGAATGAAGCCACAGCCTCTACCCCG  
GTACAGTACTGGCAGCATCACCCAGAAAAGCTTATCTTCCAGTCGTGTGATTACAAAGCTTTTTATTTAG  
GTTCTATGCTGATAAAAGAGCTTAGGGGGACAGAATCAACCAAGATGCTTGTGCAAAAATGCGGGCTAA  
CTGTGAGAAGTCTACAGAGCAAATGAAGAAGTCCCTACTATTATTCTTCTGTCTCATATAAAGGAGTC  
AAATTTATTGATGCAACAATAAGAACAATAATTGCTGAGCATGAAATTCGTAATATCTCCTGTGCTGCC  
AGGACCCAGAAGACCTCTCAACATTTGCCTATATCACAAAAGATTTGAAGTCTAATCACCCTACTGTCA  
TGTGTTTACTGCCTTTGATGTGAATTTAGCCTATGAAATCATCCTAACCTGGGACAGGCATTTCGAAGTC  
GCTTACCAGCTAGCACTACAAGCAAGAAAAGGGGACACTCCTCCACACTCCAGAAAAGCTTTGAAAACA  
AACCTCCAAACCCATCCCCAAGCCCGCGTTAGCATTGCAAGTCCGTGGATCTTCTTCATGCCAGCCA  
TACCGGGCAGGAACCATCAGAGAGACACTGAGGAGGCACTCAGAAAATTT

**ACGGT**ACGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222572 representing NM\_020140  
 Red=Cloning site Green=Tags(s)

MMWQCHLSAQDYRYYPVDGYSLLKRFPLHPLTGPRCPVQTVGQWLESIGLPQYENHLMANGFDNVQFMGS  
 NVMEDQDLEIGILNSGHRQRILQAIQLLPKMRPIGHDGYHPTSVAEWLDSIELGDYTKAFLINGYTSMD  
 LLKKIWEVELINVLKINLIGHRRILASLGDRLHDDPPQKPPRSITLRTGDWGEPSITLRPPNEASTP  
 VQYWQHHPKELIFQSCDYKAFYLGSMLIKELRGTESTQDACAKMRANCQKSTEQMKKVPITIIILSVSYKGV  
 KFIDATNKNIIAEHEIRNISCAAQDPEDLSTFAYITKDLKSNHHYCHVFTAFDVNLAYEIIITLGGQAFEV  
 AYQLALQARKGGHSSTLPESFENKPSKPIPKPRVSIRKSVDLLHASHTGQEPSERHTEELRKF

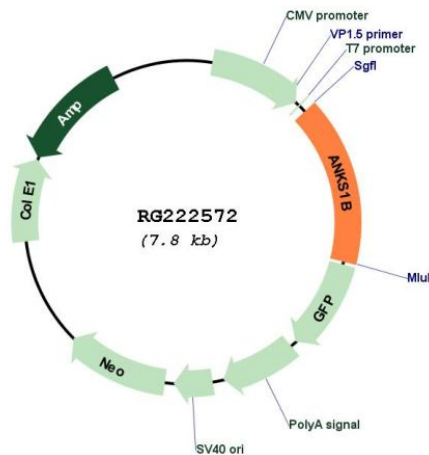
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_020140

<b>ORF Size:</b>	1242 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_020140.3</a> , <a href="#">NP_064525.1</a>
<b>RefSeq Size:</b>	1714 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	56899
<b>UniProt ID:</b>	<a href="#">Q7Z6G8</a>
<b>Cytogenetics:</b>	12q23.1
<b>Domains:</b>	SAM, PID
<b>Gene Summary:</b>	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]