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# Product datasheet for SC105827

## ANKS6 (BC012981) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ANKS6 (BC012981) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | ANKS6 |
| **Synonyms:** | ANKRD14; NPHP16; PKDR1; SAMD6 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>NCBI ORF sequence for BC012981, the custom clone sequence may differ by one or more nucleotides

GCTTTCTGCATTGAGTTGGTTTCAATTTGCCTTGTCCTTTTCCGCTCTGGGAGTGGAGGTCAAGAGGCCC
AGCCCCCTGCAGCTGATGGAGCTGTGTCACCAGGCTCTTGCTTCGTGGCTGAGTAGCCCCATGCTGTTCA
GGTTCACATCCCAGAAGGTATTCAGCCGGAGCCTCAGACAGAGTTCAGCCCTGGCCTGGCCGCCAGCCGC
CAGGAGGAGGGAGGTCTTGGGTTTAGATGAGGTGCAAAACTGGCTCCCGGGAAGGAGGGCTGAGCATCGA
GAAACCCAGAAAGCTGCCTCACAGATGCAGACATGACAGTGGCTTTGTGGTCTCGAAAACCTGGAGTAGA
CAGCCCCTGTCTTGTCATTGTTTTCTTGTTAGTCCAGGGCCGCTTCCAGCTTGGAGATACACAGCTCCGA
GCCCACCAGAGACACCACAAAACAGAACTTTTCTGCCCTCTGGTGTTAAAAGAAGGAAGAGATTTTGCTG
GGAAGAGGTACCTGTTTTCCTTCTCCTGGTACTAGGAAGTTGGTGGGTGCAGATCTTTCTCTTCAGGGGC
CCAGCAGTGACTTCATTGAGGAAGATCTGGCCTAGGCTGGATCCTCAGCCGCCTGCAACAAACATTCCTG
CCAGCAGGTGGCAGCAGGCCTCCAGGCCGCAATGCCCAGCCTATCTGCTGACCACAACCTTGCCACACCT
CTTGGCATGGGGTGTGTGCTTTTGGGGATGGGGAGGGTAGAAATGAATCAGACATGGGCTCTGCCTGTGG
GGAAATTAGAGCACAGGCAGAGAGACAGATTCCCAGGCTATAAAGCAGAATAAAATCGACTGTCTGAAAT
GTAGGAGGCAGCATGGTGTAAGAGAAAAAGCAAGGGCAGCGGCATTCACACAGACCTGTCCTGACCCTGA
TGCCACCCCTTACCAGCCGGGTAACCCTTGGCACGTTGAATAACGTAACATGAACAATTATAATACCTAA
CAATCGCTAACATTGATGTGATGTTTCCTGTGGCCAGGCACAGAGCCAGGTGCTTTACATGTAACTCATT
TAATCCCCAACAACCCTTGAAGTAGGTACAGTTATATCCCCATTTTGCAGATCAGGAAATGAAGGCACAA
AGAAATCAAAGTTCTTCCTAAAGGTCATGCAGCTGGTGGTGGGGAGAGCTGGATTTGAACCCAGGCAGGG
CAGCTGCTCACCTTCATGATGATGCATCTGCATCCATGTGGCTGGCACAGTGCCTGGAGCCAGAATAAGA
CCTCTTATCATGAGCAGCTGTCAGGACTAATAATTCATGCCAATTAGGGATGACATAAGCTGGCCCCCGA
GTGCTGTGTGTTCAGTGTCACTAATTCTCCATCTTCCTGGCAGATTTGGGCATGTGAGTGTGGCACACCT
CCTGTTGGATCACGGGGCTGATGTCAATGCCCAGAACCGGCTGGGGGCCAGTGTGCTCACTGTGGCTTCT
CGGGGCGGCCACCTGGGTGTGGTGAAGCTGCTCCTGGAAGCCGGTGCCTTTGTGGACCATCACCACCCTT
CAGGCGAGCAACTGGGGTTGGGCGGCAGCAGGGATGAGCCCTTGGACATCACAGCCCTGATGGCTGCCAT
CCAGCACGGGCACGAGGCCGTGGTGCGTCTACTGATGGAGTGGGGCGCGGACCCCAACCACGCAGCCCGG
ACCGTGGGCTGGAGCCCGCTGATGCTGGCCGCACTCACTGGGCGGCTTGGAGTGGCCCAGCAGCTGGTGG
AGAAGGGCGCCAACCCTGACCACCTCAGCGTGCTGGAGAAGACCGCCTTCGAGGTTGCACTGGACTGCAA
GCACAGGGACCTTGTAGACTACCTGGACCCGCTGACCACCGTCAGGCCCAAAACAGGTCAGGCTGCATGC
CCCCCGTGGCTTCACAGAGGACCCCAAATTGTGTTTATGTGGCTTAAGCTGAGGATTGCTCTACTGGAAG
GACACGCAGAACTCAGAGTCCAGCCCTGCAGACCACTGAGACTGAGGAAGTGGTGTGCTTAAGTATCGGG
GGGATTGCCTGTGACATGCAGGTTCTGGGCCCACTCTCTGCAGAGTGATTTGGTAGCCCTGGGCAAGAGC
CTGGAAGCCTCTATAACAAGGCTGCTCTCCCCAAGCACATCATTCTGATGCAGGTGGTTCTGGGGTCCTT
CTACAACAAGGTTTGGCAAACTTTTTCTGTAAAAGGCCAAATAGACTGTATGGACCATACAGTCTCTGTT
AAAACTACAGTAGTCACTTCTGCTAGAGTGAAAGCAGCCTTACATATGTAATGAGTAAATGAATGGGTGT
GGCTATGCATATAATATGTAAATGAGTCAGGTATGGCTAGGTTCCAATAAATTATAACTACAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC012981 unedited
GTCAAATTATGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCCTCGTGCCG
AATTCGGCACGAGGATGATGCATCTGCATCCATGTGGCTGGCACAGTGCCTGGAGCCAGA
ATAAGACCTCTTATCATGAGCAGCTGTCAGGACTAATAATTCATGCCAATTAGGGATGAC
ATAAGCTGGCCCCCGAGTGCTGTGTGTTCAGTGTCACTAATTCTCCATCTTCCTGGCAGA
TTTGGGCATGTGAGTGTGGCACACCTCCTGTTGGATCACGGGGCTGATGTCAATGCCCAG
AACCGGCTGGGGGCCAGTGTGCTCACTGTGGCTTCTCGGGGCGGCCACCTGGGTGTGGTG
AAGCTGCTCCTGGAAGCCGGTGCCTTTGTGGACCATCACCACCCTTCAGGCGAGCAACTG
GGGTTGGGCGGCAGCAGGGATGAGCCCTTGGACATCACAGCCTTGATGGCTGCCATCCAG
CACGGGCACGAGGCCGTGGTGCGTCTACTGATGGAGTGGGGCGCGGACCCCAACCACGCA
GCCCGGACCGTGGGCTGGAGCCCGCTGATGCTGGCCGCACTCACTGGGCGGCTTGGAGTG
GCCCAGCAGCTGGTGGAGAAGGGCGCCAACCCTGACCACCTCAGCGTGCTGGAGAAGACC
GCCTTCGAGGTTGCACTGGACTGCAAGCACAGGGACCTTGTAGACTACCTGGACCCGCTG
ACCACCGTCAGGCCCAAAACAGGTCANGCTGCATGCCCCCCGTGGCTTCACAGAGGACCC
CCAATTGTGTTTATGTGGCTTAAGCTGAGGATTGCTCTACTGGAAGGACACGCAGAACTT
AGAGTCCAGCCCTGCAGACCACTGAGACTGTAGAAGTGGTGTGCTTAAGTATCGGNGGGG
ATTGNCTGTGACATGCAGNTCCTGGGCCCATCTTTGCANAGTGAATTGGTAGCCCTGGGC
AGAACC

**Restriction Sites:** NotI-NotI

**ACCN:** BC012981

**Insert Size:** 1800 bp

**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).

**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:** BC012981.2

**RefSeq Size:** 2409 bp

**RefSeq ORF:** 219 bp

**Locus ID:** 203286

**Cytogenetics:** 9q22.33

**Domains:** ANK

**Gene Summary:** This gene encodes a protein containing multiple ankyrin repeats and a SAM domain. It is thought that this protein may localize to the proximal region of the primary cilium, and may play a role in renal and cardiovascular development. Mutations in this gene have been shown to cause a form of nephronophthisis (NPHP16), a chronic tubulo-interstitial nephritis. [provided by RefSeq, Jul 2015]