

## Product datasheet for **SC322977**

### ANKRD2 (NM\_001129981) Human Untagged Clone

#### Product data:

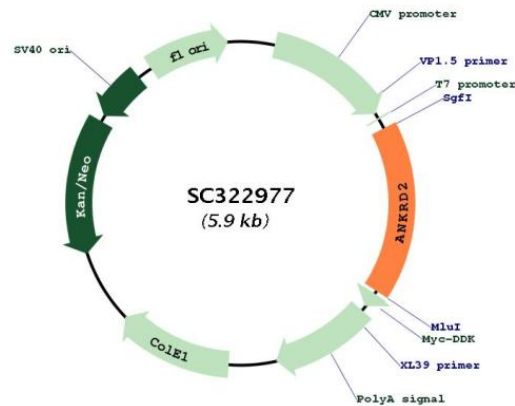
**Product Type:** Expression Plasmids  
**Product Name:** ANKRD2 (NM\_001129981) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ANKRD2  
**Synonyms:** ARPP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC322977 representing NM\_001129981.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAAGGCGCCAGCTGGGCAGGGGTGGTGCTCTGGCCTATAAAGCCCCGAGGCCCTGTGGCCT
GCAGAGGCGGTTATGGACGGCACCATGGAGGACTCCGAGGCGGTGCAGAGGGCCACAGCGCTCATCGAG
CAGCGGCTGGCACAGGAGGAGAGAATGAGAACTCCGAGGAGACGCACGCCAGAAGCTGCCATGGAC
TTGCTGGTGTGGAGGATGAGAAGCACCACGGGGCTCAGAGTGCAGCCCTGCAGAAGGTGAAGGGCCAA
GAGCGCGTGCGCAAGACGTCCCTGGACCTGCGGGGGAGATCATCGATGTGGCGGGATCCAGAACCTC
ATCGAGCTGCGGAAGAAACGCAAGCAGAAGAAGCGGGACGCTCTGGCCGCTCGCATGAGCCGCCCA
GAGCCCGAGGAGATCACTGGCCCTGTGGATGAGGAGACCTTCTGAAAGCTGCGGTGGAGGGGAAAATG
AAGGTCATTGAGAAGTTCTGGCTGACGGGGGTGACCCGACACGTGCGACCAGTTCCGTGCGACAGCA
CTGCAACGAGCTTCCCTGGAAGGCCACATGAAATCCTGGAGAAGCTTCTAGATAATGGGGCCACTGTG
GACTTCCAGGATCGGCTGGACTGCACAGCCATGCATTGGCCCTGCCGCGGGGCCACTTAGAGGTGGTG
AAACTTCTGCAAAGCCATGGAGCAGACCAATGTGAGGGATAAGGAAGGGGATACTGCCCTGCATGAC
GCTGTGAGGCTCAACCGCTACAAAATCATCAAAGTGTCTCTGATGAGGGCTGACATGATGACCAAG
AACCTGGCAGGAAAGACCCGACGGACCTGGTGCAGCTCTGGCAGGCTGATACCCGGCACGCCCTGGAG
CATCCTGAGCCGGGGCTGAGCATAACGGGCTGGAGGGCCCTAATGATAGTGGCGAGAGACCCCTCAG
CCTGTGCCAGCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001129981

**Insert Size:** 984 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).

**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:**

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\\_001129981.2](#)

**RefSeq Size:** 1421 bp

**RefSeq ORF:** 984 bp

**Locus ID:** 26287

UniProt ID: [Q9GZV1](#)

Cytogenetics: 10q24.2

MW: 36.2 kDa

**Gene Summary:** This gene encodes a protein that belongs to the muscle ankyrin repeat protein (MARP) family. A similar gene in rodents is a component of a muscle stress response pathway and plays a role in the stretch-response associated with slow muscle function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]  
Transcript Variant: This variant (2) lacks an in-frame exon in the 3' coding region compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform c. Translation begins at a downstream in-frame start codon compared to the AUG used in this transcript to produce isoform d.