

## Product datasheet for **RC234782**

### **ANKRD6 (NM\_001242809) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ANKRD6 (NM_001242809) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKRD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234782 representing NM\_001242809  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGCCAGCAAGATGCGGTGCTGCACCTTCAGAGCGCCTTCTCGTAGCTGCGTACAAAGGCCAAACAG  
AGAATGTGGTTTCAGCTCATCAACAAGGGCGCCAGGGTAGCGGTTACCAAGCATGGCCGGACTCCCCTGCA  
TCTTGCTGCCAATAAGGGCCATCTTCTGTGGTCCAGATCTTGCTGAAGGCTGGCTGCGACCTTGATGTC  
CAGGATGATGGGGACCAGACCGCCTTGACCCGGGCCACAGTGGTGGGAACACGGAGATCATCGCGGCGC  
TCATCCACGAAGGGTGTGCCCTGGACAGACAAGACAAGGATGGGAATACAGCCTTGATGAAGCATCCTG  
GCATGGTTTCAGCCAGTCAGCCAAGCTGCTCATTAAAGCAGGAGCCAACGTGCTTGCCAAGAACAAGGCG  
GGGAACACAGCTCTGCACCTGGCCTGCCAGAACAGCCACTCCAGAGCACGCGCTCCTCTGCTGGCCG  
GGTCCCGCGCTGACCTCAAAAATAATGCAGGAGACACCTGTTTGACGTTGCTGCGCGCTATAATCACTT  
GTCCATCATTAGGCTCCTCCTCACTGCTTCTGTTCTGTCCATGAAAAGAACCAGGCTGGAGACACAGCA  
CTTCACGTTGCTGCTGCCCTAAATCACAGAAGGTGGCCAAAATCTTACTGGAAGCCGGAGCAGATACGA  
CCATTGTTAACAATGCAGGCCAGACTCCGCTGGAGACTGCCCGCTACCACAATAACCCGGGAAGTTGCTCT  
TCTCCTTACTAAAGCTCCCCAGGCTTTGCGCTTCAGTCGTGGGCGAAGCCTGAGGAAAAAGAGAGAGAGG  
CTCAAGGAAGAGAGGAGAGGCCAGTCTGTGCCAAGAGATGAGGTGGCCAAAAGCAAGGGCAGTGTCTCAG  
CAGGAGACACCCCGAGCAGTGAACAGGCTGTGGCCAGAAAAGAAGAAGCCAGAGAAGAGTTCTGTGAGC  
CTCCCCAGAACCCAGAGCAAAGGATGACAGGAGGAGAAAGTCAAGGCCAAAGGTGTCAGCATTCTGAC  
CCCACCCAGCAGCCGACCAACAGCCTGGACACCAGAAGAACCTGCATGCTCATAATCACCTAAAAAGA  
GGAACAGGCATCGGTGTTTCATCCCCACCCCATGAGTTTCAGGGCGTATCAGCTCTACACATTGTA  
CCGGGGCAAGGATGGGAAAGTGATGCAGGCACCAATAAATGGTTGTCGATGTGAACCTCTAATCAACAAG  
CTGGAGAATCAGTTGGAGGCTACTGTGGAGGAGATAAAAGCAGAGCTGGGATCGGTTTCAGGACAAAATGA  
ATACAAAGCTGGGGCAGATGGAGAATAAGACCCAGCACCATAATGCGTGTGTTGGACAAGCTGATGGTTGA  
GCGACTTTCTGCAGAGAGGACGGAGTGCCTGAACCGCCTGCAACAGCACTCAGACACAGAGAAGCATGAG  
GGGAGAAAACGACAGATATCCTTGGTGGATGAATAAAAACCTGGTGCATGTTAAAGATTCAGAATCTGG  
AGCAGAAGCTTTCTGGAGATTCTAGGGCTGCAGAGCTAAATCCACACCATCTACTGTGAGTCTCTAC  
AGGTGTGGACCAATTAGTGGTACTGCAGTCCAGCAGCAGCTTCCGACAGCTCCCCTCCAGTGGTTAGG  
CCCAAAGAGAAGGCCCTCAACTCCACTGCTACCCAGAGACTCCAGCAGGAGCTGTCGTCTTCTGACTGTA  
CAGGCTCCCGACTGAGAAACGTCAAGGTCCAGACAGCCTTGCTACCCATGAATGAGGCAGCCAGATCTGA  
TCAGCAGGCTGGGCCCTGCGTCAACAGAGGCACTCAAATAAGAAAGTCTGGGAAGAGTGGGCCAACAAAGG  
CATCGTGGCCAGCAACCCGACAGCCAGCAGCACCTGTGGGACAGCCGCCACCAGCCACAGGCAGCGAGCAGA  
CTGGCCCTCACATTCGGGACACCTCCCAAGCTCTGGAGCTTACCCAGTATTTTTTGGAGGCTGTTTCTAC  
CCAGATGGAAAAGTGGTATGAAAGGAAGATTGAAGAAGCACGAAGCCAAGCCAATCAGAAAAGCCAGCAA  
GATAAGGCTACATTGAAGGAACACATTAAGTTTAGAAGAGGAAGTTCGCAAACTAAGGACTAGGGTGC  
AGAAGGAAAAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234782 representing NM\_001242809  
 Red=Cloning site Green=Tags(s)

```
MSQQDAVAALSERLLVAAYKQQTENNVQLINKGARVAVTKHGRTPLHLAANKGHLPVVQILLKAGCDLDV
QDDGDQTLHRATVVGNTEIIAALIHEGCALDRQDKGNTALHEASWHGFSQSAKLLIKAGANVLAKNKA
GNTALHLACQNSHSQSTRVLLLAGSRADLKNAGDTCCLHVAARYNHLIIRLLLTAFCVHEKNQAGDTA
LHVAALNHHKKVAKILLEAGADTTIVNAGQTPLETARYHNNPEVALLLTKAPQVLRFSRGRSLRKKRER
LKEERRAQSVPRDEVAQSKGSVSAGDTPSSEQAVARKEEAREEFLSASPEPRAKDDRRRKS RPKVSAFSD
PTPPADQQPQHKNLHAHNHPKKRNRHRCSSPPPPHEFRAYQLYTLYRGKDGKVMQAPINGCRCEPLINK
LENQLEATVEEIKAE LGSVQDKMNTKLGQ MENKTQH QMRVLDKLMVERLSAERTECLNRLQQHSDTEKHE
GEKRQISLVDELKTWCM LKI QNLEQKLSGDSRACRAKSTPSTCESSTGVDQLVVTAGPAAASDSSPPVVR
PKEKALNSTATQRLQELSSSDCTGSRLRNKVKQTALLPMNEAARSDQQAGPCVNRGTQTKKSGKSGPTR
HRAQQPAAASSTCGQPPPATGSEQTGPHIRDTSQALELTQYFFEAVSTQMEKWYERKIEEARSQANQKAQQ
DKATLKEHIKSL EELAKLRTRVQKEN
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001242809

**ORF Size:** 2181 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\\_001242809.2](#)

**RefSeq Size:** 5355 bp

**RefSeq ORF:** 2184 bp

**Locus ID:** 22881

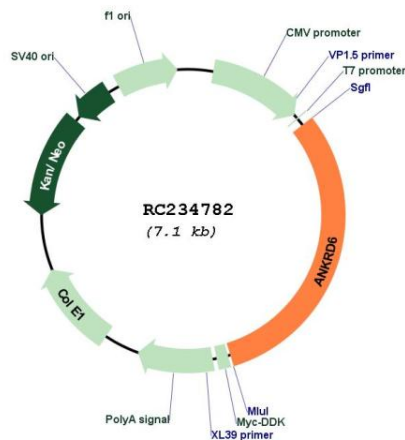
**UniProt ID:** [Q9Y2G4](#)

**Cytogenetics:** 6q15

**MW:** 80.4 kDa

**Gene Summary:** Recruits CKI-epsilon to the beta-catenin degradation complex that consists of AXN1 or AXN2 and GSK3-beta and allows efficient phosphorylation of beta-catenin, thereby inhibiting beta-catenin/Tcf signals.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC234782