

## Product datasheet for RC205782

### KCTD11 (NM\_001002914) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCTD11 (NM\_001002914) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KCTD11  
**Synonyms:** C17orf36; KCASH1; REN; REN/KCTD11  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC205782 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCTGGGGCCATGTTTAGGGCCGGCACCCCATGCCCCCAACCTCAATTCCTCAAGGAGGCGGCCACT  
 ACTTCATCGACCGGGATGGCAAGGCCTCCGGCACATCCTCAATTCCTGAGGCTGGGCCGCTGGACCT  
 GCCCGTGGGTACGGAGAGACAGCGCTGCTCAGGGCAGAGGCTGACTTCTACCAGATCCGGCCCTCCTG  
 GACGCGCTGCGGAACTGGAGGCCTCTCAGGGGACCCCTGCACCCACAGCTGCCCTGCTCCACGCAGATG  
 TAGATGTCAGCCCCGCCTGGTGCATTCTCTGCTCGCCGGGACCCCATCACTATGAGCTGAGCTCCGT  
 CCAGGTGGACACCTTCGAGCCAACCTTTCTGCACCGACTCTGAGTGTCTAGGTGCTTTGCGGGCCCGA  
 TTTGGTGTGGCCAGTGGGATAGGGCAGAGGGGAGCCACATTTTCATCTGGAGTGGGCCCCCGCCCGG  
 TGGAACTCCCGAGGTGGAGTATGGGAGACTGGGGCTGCAGCCGCTGTGGACTGGGGGGCCAGGAGAGCG  
 GCGGGAGGTGGTGGGCACCCCAAGCTTCTGGAGGAGGTGCTGCGGGTGGCTCTCGAGCACGGCTCCGA  
 CTAGACTCTGTCTTCCCGACCCCGAAGACCTGCTCAACTCCAGGTCTCTGCGCTTTGTCCGGCAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC205782 protein sequence  
 Red=Cloning site Green=Tags(s)

MLGAMFRAGTPMPPNLSQGGGHYFIDRDGKAFRHILNFLRLGRDLPRGYGETALLRAEADFYQIRPLL  
 DALRELEASQGTAPATAALLHADVDVSPRLVHF SARRGPHHYELSSVQVDTFRANL FCTDSECLGALRAR  
 FGVASGDRAEGSPHFHLEWAPRPVELPEVEYGRGLGLQPLWTGGPGERREVVGTPSFLEEVL RVALEHGFR  
 LDSVFPDPEDLLNSRSLRFVRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6268\\_h09.zip](https://cdn.origene.com/chromatograms/mk6268_h09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001002914

**ORF Size:** 696 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\\_001002914.2](#)

**RefSeq Size:** 3081 bp

**RefSeq ORF:** 699 bp

**Locus ID:** 147040

**UniProt ID:** [Q693B1](#)

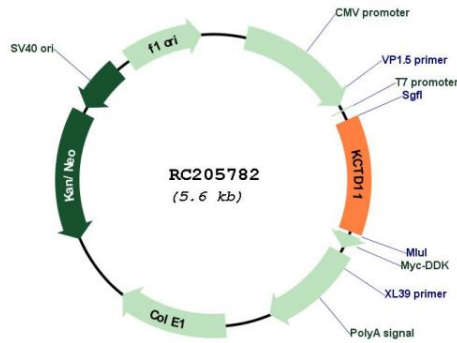
**Cytogenetics:** 17p13.1

**Protein Families:** Ion Channels: Other

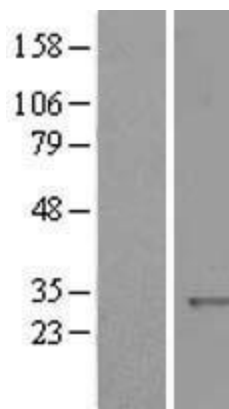
**MW:** 25.9 kDa

**Gene Summary:** Plays a role as a marker and a regulator of neuronal differentiation; Up-regulated by a variety of neurogenic signals, such as retinoic acid, epidermal growth factor/EGF and NGFB/nerve growth factor. Induces apoptosis, growth arrest and the expression of cyclin-dependent kinase inhibitor CDKN1B. Plays a role as a tumor repressor and inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Acts as probable substrate-specific adapter for a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex towards HDAC1. Functions as antagonist of the Hedgehog pathway on cell proliferation and differentiation by affecting the nuclear transfer of transcription factor GLI1, thus maintaining cerebellar granule cells in undifferentiated state, this effect probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. When knock-down, Hedgehog antagonism is impaired and proliferation of granule cells is sustained. Activates the caspase cascade.[UniProtKB/Swiss-Prot Function]

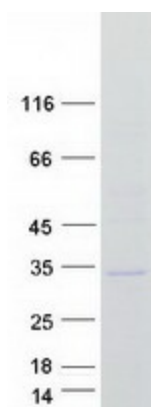
Product images:



Circular map for RC205782



Western blot validation of overexpression lysate (Cat# [LY424110]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205782 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCTD11 protein (Cat# [TP305782]). The protein was produced from HEK293T cells transfected with KCTD11 cDNA clone (Cat# RC205782) using MegaTran 2.0 (Cat# [TT210002]).