

## Product datasheet for **TP305782**

### **KCTD11 (NM\_001002914) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human potassium channel tetramerisation domain containing 11 (KCTD11), 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC205782 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MLGAMFRAGTPMPPNLSQGGGHYFIDRDGKAFRHILNFLRLGRLDLPRGYGETALLRAEADFYQIRPLL DALRELEASQGTPAPTAALLHADVDVSPRLVHFSARRGPHHYELSSVQVDTFRANLCTDSECLGALRAR FGVASGDRAEGSPHFHLEWAPRPVELPEVEYGRLGLQLWTGGPGERREVVGTPSFLEEVLRVALEHGFR LDSVFPDPEDLLNSRSLRFVRH  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	25.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_001002914</a></u>
<b>Locus ID:</b>	147040



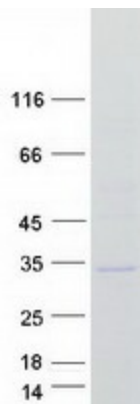
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UniProt ID: [Q693B1](#), [A0A158RFT7](#)  
RefSeq Size: 3081  
Cytogenetics: 17p13.1  
RefSeq ORF: 696  
Synonyms: C17orf36; KCASH1; REN; REN/KCTD11

**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]

**Protein Families:** Ion Channels: Other

### Product images:



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]).