

## Product datasheet for SC310612

### KCTD5 (NM\_018992) Human Untagged Clone

#### Product data:

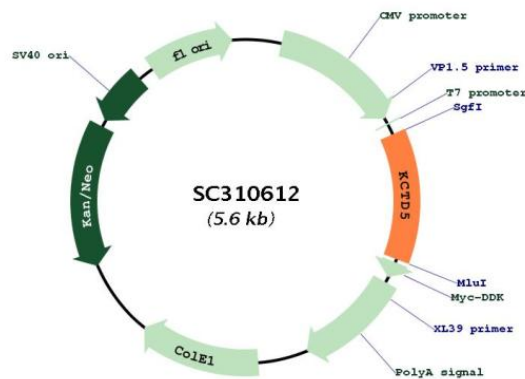
Product Type:	Expression Plasmids
Product Name:	KCTD5 (NM_018992) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCTD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310612 representing NM_018992. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGAATCACTGCGAGCTCCTGTGCGCCGGCCCGGGGCGGCATCGGGGCGGGGCTGGGGGGCGGC
CTGTGCCGCCGCTGCAGCGCTGGGCTCGGCGCCCTGGCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTC
CGACTCAACGTCGGCGGCACCTACTTCCTACCACTCGGCAGACCCTGTGCCGGGACCCGAAATCCTTC
CTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCGCCTATTTAATC
GACAGAGACCCACCTACTTTGGCCTGTGCTGAACTACCTGAGACACGGCAAGCTGGTGATTAACAAA
GACCTCGCGGAGGAAGGAGTGTGGAGGAAGCAGAATTTTACAATATCACCTCATTAAAACTTGTA
AAGGACAAAATTAGAGAACGAGACAGCAAAACATCGCAGGTGCCTGTGAAGCATGTGTACCGTGTGCTG
CAGTGCCAGGAGGAGGAGCTCACGAGATGGTGTCCACCATGTCCGACGGCTGGAAGTTCGAGCAGTTG
GTCAGCATCGGCTCCTCTTACAATATGGGAACGAAGACCAAGCCGAGTTCCTCTGTGTGGTGTCCAAG
GAGCTGCACAACACCCCGTACGGTACGGCCAGCGAGCCAGCGAGAAGGCCAAGATTTTGAAGAACGA
GGCTCAAGGATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_018992

**Insert Size:** 705 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:	<u>NM_018992.3</u>
RefSeq Size:	2479 bp
RefSeq ORF:	705 bp
Locus ID:	54442
UniProt ID:	<u>Q9NXV2</u>
Cytogenetics:	16p13.3
Domains:	BTB, K_tetra
Protein Families:	Ion Channels: Other
MW:	26.1 kDa
Gene Summary:	Its interaction with CUL3 suggests that it may act as a substrate adapter in some E3 ligase complex (PubMed:18573101). Does not affect the function of Kv channel Kv2.1/KCNB1, Kv1.2/KCNA2, Kv4.2/KCND2 and Kv3.4/KCNC4 (PubMed:19361449).[UniProtKB/Swiss-Prot Function]