

## Product datasheet for **RC229802**

### **CITED2 (NM\_001168389) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CITED2 (NM\_001168389) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CITED2  
**Synonyms:** ASD8; MRG-1; MRG1; P35SRJ; VSD2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC229802 representing NM\_001168389  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGACTGGAAATGGCAGACCATATGATGGCCATGAACCACGGGCGCTTCCCCGACGGCACCAATG  
GGCTGCACCATCACCTGCCACCGCATGGGCATGGGCGAGTTCCCGAGCCCCATCACCACCAGCAGCA  
GCAGCCCCAGCACGCCTCAACGCCCTAATGGGCGAGCACATACTACGGCGGGCAACATGAATGCC  
ACGAGCGGCATCAGGCATGCGATGGGGCCGGGACTGTGAACGGAGGGCACCCCCGAGCGCGCTGGCC  
CCGCGGCCAGGTTTAACAACCTCCAGTTCATGGGTCCCCCGGTGGCCAGCCAGGGAGGCTCCCTGCCGGC  
CAGCATGCAGCTGCAGAAGCTCAACAACAGTATTTCAACCATCACCCCTACCCCAACAACCACTACATG  
CCGGATTTGCACCCTGCTGCAGGCCACCAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCA  
AGCACAGCGGGCGGCAGCAGCACCCCGCGGCTCGGGCGGCAGCAGCACCCCGCGGCTCTGGCAGCAG  
CTCGGGCGGGCGCGGGCAGCAGCAACAGCGGGCGGGCAGCGGCAGCGGAACATGCCCGCTCCGTG  
GCCACGTCCCCGCTGCAATGCTGCCGCCAATGTCATAGACTGATTTTCATCGACGAGGAAGTTCTTA  
TGTCTTGGTGATAGAAATGGGTTTGGACCGCATCAAGGAGCTGCCCGAACTCTGGCTGGGGCAAACGA  
GTTTGATTTTATGACGGACTTCGTGTGCAAACAGCAGCCAGCAGAGTGAGCTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC229802 representing NM\_001168389  
 Red=Cloning site Green=Tags(s)

MSGLEADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEIHYGAGNMNA  
 TSGIRHAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNQYFNHHPYPHNHYM  
 PDLHPAAGHQMNGTNQHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSSGGGAGSSNSGGSGSGNMPASV  
 AHVPAAMLPPNVIDTDFIDEEVLMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQPSRVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001168389

**ORF Size:** 825 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\\_001168389.2](#), [NP\\_001161861.2](#)

**RefSeq Size:** 1780 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 10370

**UniProt ID:** [Q99967](#)

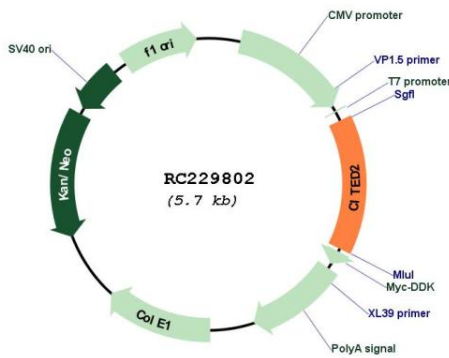
**Cytogenetics:** 6q24.1

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 29 kDa

**Gene Summary:** The protein encoded by this gene inhibits transactivation of HIF1A-induced genes by competing with binding of hypoxia-inducible factor 1-alpha to p300-CH1. Mutations in this gene are a cause of cardiac septal defects. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

**Product images:**



Circular map for RC229802