

Product datasheet for **RC202494**

CITED2 (NM_006079) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CITED2 (NM_006079) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CITED2
Synonyms: ASD8; MRG-1; MRG1; P35SRJ; VSD2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC202494 representing NM_006079
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGACCATATGATGGCCATGAACCACGGGCGCTTCCCGACGGCACCAATGGGCTGCACCATCACC
CTGCCACCGCATGGGCATGGGGCAGTTCGGAGCCCCATCACCACCAGCAGCAGCAGCCCCAGCAGCG
CTTCAACGCCCTAATGGGCGAGCACATACTACGCGCGGGCAACATGAATGCCACGAGCGGCATCAGG
CATGCGATGGGGCCGGGACTGTGAACGGAGGGCACCCCGGAGCGCGCTGGCCCCCGCGGCCAGGTTTA
ACAACCTCCAGTTCATGGGTCCCGGTTGGCCAGCCAGGGAGGCTCCCTGCCGGCCAGCATGCAGCTGCA
GAAGCTCAACAACCAGTATTTCAACCATCACCCCTACCCCAACAACCACTACATGCCGGATTTGCACCT
GCTGCAGGCCACCAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCAAGCACAGCGGGCA
GCAGCACCCCGGGCGGCTCGGGCGGCAGCAGCACCCCGGGCGGCTCTGGCAGCAGCTCGGGCGGGCGC
GGCAGCAGCAACAGCGGGCGGCAGCGGCAGCGGCAACATGCCCGCTCCGTGGCCACGTCCCCGCT
GCAATGCTGCCGCCAATGTCATAGACTGATTTTCATCGACGAGGAAGTTCTTATGTCCTTGGTGATAG
AAATGGGTTTGGACCGCATCAAGGAGCTGCCGAACCTTGCTGGGGCAAACGAGTTTGATTTTATGAC
GGACTTCGTGTGCAAACAGCAGCCAGCAGAGTGAGCTGT

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202494 representing NM_006079
 Red=Cloning site Green=Tags(s)

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEHIHYGAGNMNATSGIR
 HAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHPYPHNHYMPDLHP
 AAGHQMNGTNQHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSGGGAGSSNSGGGSGSNMPASVAHVPA
 AMLPPNVIDTDFIDEEVLMSLVIEMGLDRIKELPELWLGQNEFDFTDFVCKQQPSRVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

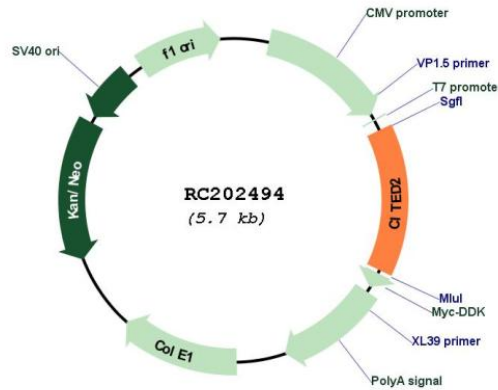
Chromatograms: https://cdn.origene.com/chromatograms/mg3903_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

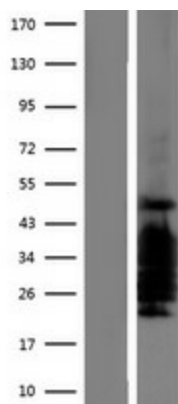


Plasmid Map:



ACCN: NM_006079

| | |
|-------------------------------|---|
| ORF Size: | 810 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: | <ol style="list-style-type: none">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_006079.5 |
| RefSeq Size: | 1930 bp |
| RefSeq ORF: | 813 bp |
| Locus ID: | 10370 |
| UniProt ID: | Q99967 |
| Cytogenetics: | 6q24.1 |
| Domains: | CITED |
| Protein Families: | Druggable Genome, Transcription Factors |
| MW: | 28.3 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:

Western blot validation of overexpression lysate (Cat# [LY416876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202494 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).