

Product datasheet for **RG202494**

CITED2 (NM_006079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CITED2 (NM_006079) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CITED2
Synonyms:	ASD8; MRG-1; MRG1; P35SRJ; VSD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202494 representing NM_006079 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGACCATATGATGGCCATGAACCACGGGCGCTTCCCCGACGGCACCAATGGGCTGCACCATCACC
CTGCCCACCGCATGGGCATGGGGCAGTTCCCGAGCCCCATCACCACCAGCAGCAGCAGCCCCAGCAGC
CTTCAACGCCCTAATGGGCGAGCACATACTACGCGCGGGCAACATGAATGCCACGAGCGGCATCAGG
CATGCGATGGGGCCGGGACTGTGAACGGAGGGCACCCCCGAGCGCGCTGGCCCCGCGCCAGGTTTA
ACAACCTCCAGTTCATGGGTCCCCGGTGGCCAGCCAGGGAGGCTCCCTGCCGGCCAGCATGCAGCTGCA
GAAGCTCAACAACAGTATTTCAACCATACCCCTACCCCCACAACCACTACATGCCGGATTTGCACCCCT
GCTGCAGGCCACAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCAAGCACAGCGGGCGCA
GCAGCACCCCCGCGGGCTCGGGCGGCAGCAGCACCCCCGCGGGCTCTGGCAGCAGCTCGGGCGGGCGC
GGGCAGCAGCAACAGCGGCGGGCAGCGGCAGCGGCAACATGCCCGCTCCGTGGCCCACGTCCCCGCT
GCAATGCTGCCGCCAATGTCATAGACTGATTTTCATCGACGAGGAAGTTCTTATGTCCTTGGTGATAG
AAATGGGTTTGGACCGCATCAAGGAGCTGCCCGAACTCTGGTGGGGCAAACGAGTTTGATTTTATGAC
GGACTTCGTGTGCAAACAGCAGCCAGCAGAGTGAGCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202494 representing NM_006079
 Red=Cloning site Green=Tags(s)

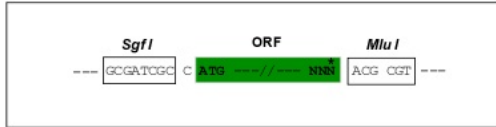
MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEHIHYGAGNMNATSGIR
 HAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHPYPHNHYMPDLHP
 AAGHQMNGTNQHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSGGGAGSSNSGGGSGSGNMPASVAHVPA
 AMLPPNVIDTDFIDEEVLSLVIEMGLDRIKELPELWLGQNEFDFTDFVCKQPSRVSC

TRTRPLE - GFP Tag - V

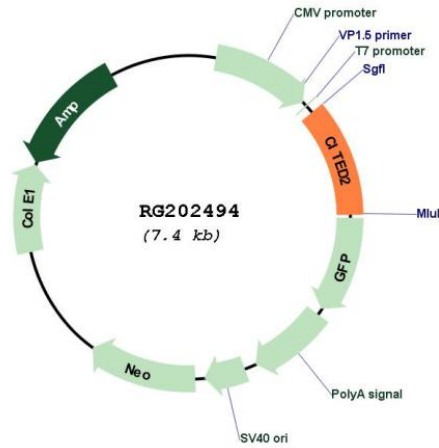
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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
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]