

Product datasheet for **RG227378**

CITED1 (NM_001144886) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CITED1 (NM_001144886) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CITED1
Synonyms: MSG1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227378 representing NM_001144886
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACACGTCGAGGCTGCACTTGATGTCAAGGGTGGCACCTCACCTGCGAAGGAGGATGCCAAC
AAGAGATGAGCTCCGTGGCCTACTCCAACCTTGGCGTAAAGATCGAAAGCAGTGGCCATTCTGCACTA
CCCTGGGGTAGCCTCAAATGGAACCAAGGCCAGTGGGGCTCCACTAGTTCTCGGGATCTCCAATAGGC
TCTCTACAACCACCCCTCCACTAAACCCCATCCTTCAACCTGCACCCGCCCCCTCACTTGCTGGCTA
GTATGCAGCTGCAGAACTTAATAGCCAGTATCAGGGGATGGCTGCTGCCACTCCAGGCCAACCCGGGA
GGCAGGACCCCTGCAAACTGGGACTTTGGGGCCAGGCCGGAGGGGCAGAACTACTCTCTCTTCTGCT
GGTGGCCAGAGCCCTGCTATCATCGATTGCGACCCAGTGGATGAGGAAGTCTGATGTGCTGCTGGTGGTGG
AACTGGGGTTGGACCGAGCCAATGAGCTTCCGGAGCTGTGGCTGGGGCAGAAATGAGTTTGACTTCACTGC
GGACTTCCATCTAGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227378 representing NM_001144886
Red=Cloning site Green=Tags(s)

MPTTSRPALDVKGGTSPAKEDANQEMSSVAYSNLAVKDRKAVAILHYPGVASNGTKASGAPTSSSGSPIG
SPTTTPPTKPPSFLHPAPHLASMLQLKLSQYQGMMAATPGQPGEAGPLQNWDFGAQAGGAESLSPSA
GAQSPAIIIDSDPVDEEVLMSSLVELGLDRANELPELWLGQNEFDFTADFPSSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

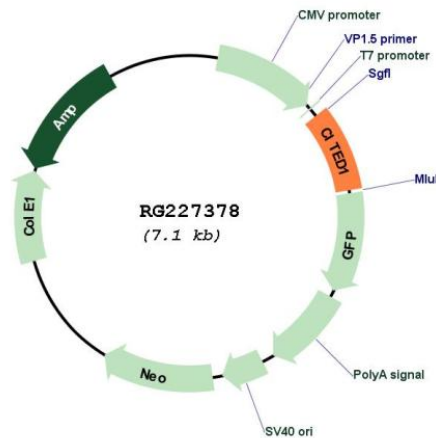


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001144886

ORF Size: 579 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_001144886.1](#), [NP_001138358.1](#)

RefSeq Size: 903 bp

RefSeq ORF: 582 bp

Locus ID: 4435

UniProt ID: [Q99966](#)

Cytogenetics: Xq13.1

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the CREB-binding protein/p300-interacting transactivator with Asp/Glu-rich C-terminal domain (CITED) family of proteins. The encoded protein, also known as melanocyte-specific gene 1, may function as a transcriptional coactivator and may play a role in pigmentation of melanocytes. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]