

Product datasheet for **RC202061**

ID1 (NM_002165) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ID1 (NM_002165) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ID1
Synonyms: bHLHb24; ID
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202061 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGTCGCCAGTGGCAGCACCCGCCACCGCCCGCGGGCCCCAGCTGCGCGCTGAAGCCGGCAAGA
CAGCGAGCGGTGCGGGCGAGGTGGTGGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCG
GGGCGCCGGGCGCGCTGCCTGCCCTGCTGGACGAGCAGGTAACGTGCTGCTCTACGACATGAAC
GGCTGTTACTCAGCCTCAAGGAGCTGGTCCCCACCCTGCCCCAGAACCAGGTGAGCAAGGTGGAGA
TTCTCCAGCAGTCATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACCGGAATCCGAAGTTGGAAC
CCCCGGGGGCGAGGGCTGCCGGTCCGGGCTCCGCTCAGCACCTCAACGCGGAGATCAGCGCCCTGACG
GCCGAGGCGCATGCGTTCCTGCGGACGATCGCATCTTGTGTCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202061 protein sequence
Red=Cloning site Green=Tags(s)

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMN
GCYSRLKELVPTLPQNRKYSKVEILQHVIDYIRDQLLELNSEVGTGGGRPLPVRAPLSTLNGEISALT
AEAACVPADDRILCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

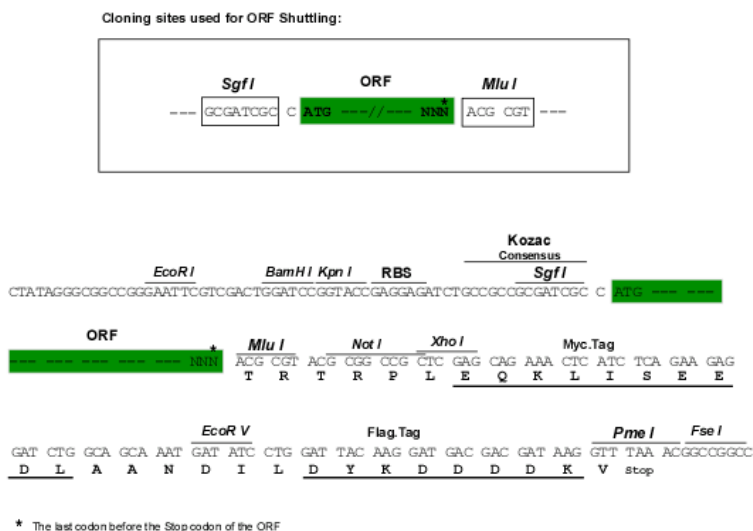
Chromatograms: https://cdn.origene.com/chromatograms/mk6011_a04.zip



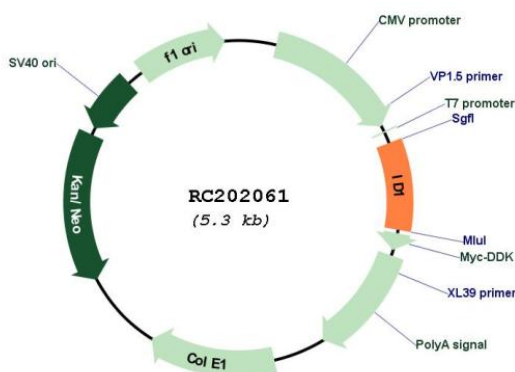
[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002165

ORF Size: 465 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002165.4](#)

RefSeq Size: 1000 bp

RefSeq ORF: 468 bp

Locus ID: 3397

UniProt ID: [P41134](#)

Cytogenetics: 20q11.21

Domains: HLH

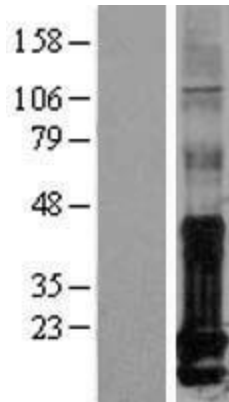
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: TGF-beta signaling pathway

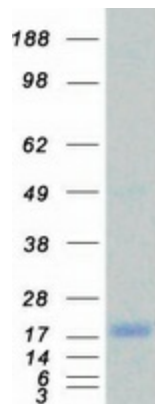
MW: 16.1 kDa

Gene Summary:

The protein encoded by this gene is a helix-loop-helix (HLH) protein that can form heterodimers with members of the basic HLH family of transcription factors. The encoded protein has no DNA binding activity and therefore can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. This protein may play a role in cell growth, senescence, and differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:


Western blot validation of overexpression lysate (Cat# [LY400785]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202061 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ID1 protein (Cat# [TP302061]). The protein was produced from HEK293T cells transfected with ID1 cDNA clone (Cat# RC202061) using MegaTran 2.0 (Cat# [TT210002]).