

Product datasheet for **RC222579**

ID1 (NM_181353) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ID1 (NM_181353) 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: >RC222579 representing NM_181353
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGTCGCCAGTGCCAGCACCGCCACCGCCCGCGGGCCCCAGCTGCGCGCTGAAGCCGGCAAGA
CAGCGAGCGGTGCGGGCGAGGTGGTGGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCG
GGGCGCCGGGCGCGCTGCCTGCCCTGCTGGACGAGCAGGTAACCGTGTCTCTACGACATGAAC
GGCTGTTACTCAGCCTCAAGGAGCTGGTCCCCACCCTGCCCCAGAACCAGGTGAGCAAGGTGGAGA
TTCTCCAGCAGTCATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACCGGAATCCGAAGTTGGAAC
CCCCGGGGCCGAGGGCTGCCGGTCCGGGCTCCGCTCAGCACCTCAACGCGGAGATCAGCGCCCTGACG
GCCGAGGTGAGATCCAGATCCGACCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222579 representing NM_181353
Red=Cloning site Green=Tags(s)

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMN
GCYSRLKELVPTLPQNRKYSKVEILQHVIDYIRDLQLELNSEVSEVGTGGGRGLPVRAPLSTLNGEISALT
AEVRSRSDH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

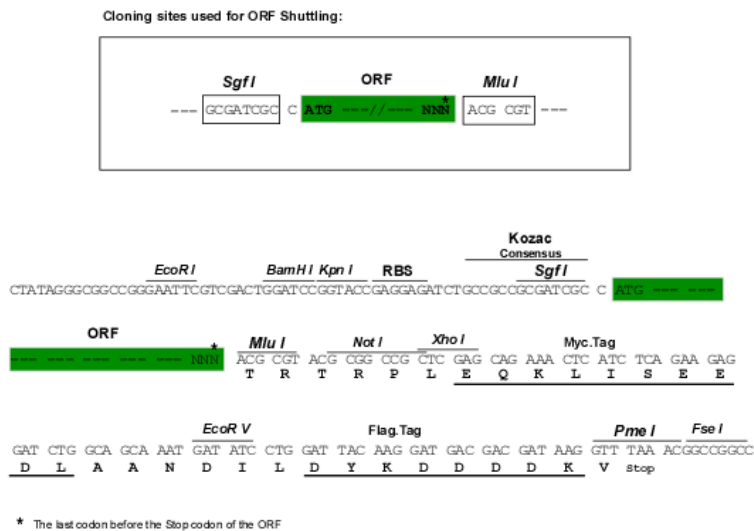
Chromatograms: https://cdn.origene.com/chromatograms/ja1456_b02.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181353

ORF Size: 447 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_181353.3](#)

RefSeq Size: 1234 bp

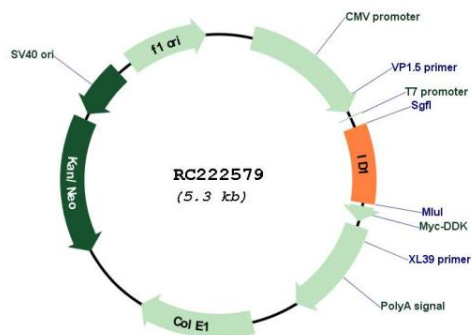
RefSeq ORF: 450 bp

Locus ID: 3397

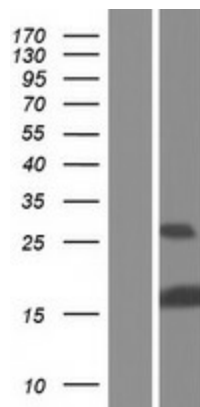
UniProt ID: [P41134](#)
Cytogenetics: 20q11.21
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: TGF-beta signaling pathway
MW: 15.4 kDa

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:



Circular map for RC222579



Western blot validation of overexpression lysate (Cat# [LY405746]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222579 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).