

Product datasheet for **RG204170**

ID4 (NM_001546) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ID4 (NM_001546) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ID4
Synonyms: bHLHb27; IDB4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204170 representing NM_001546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGGTGAGCCCGGTGCGCCCTCGGGCCGCAAGGCGCCGTCGGGCTGCGGCGCGGGGAGCTGG
 CGCTGCGCTGCCTGGCCGAGCACGGCCACAGCCTGGGTGGCTCCGACCCGCGCGCGCGGGCGGC
 AGCGCGCTGTAAGGCGGCCGAGGCGCGCGCCGACGAGCCGGCGCTGTGCCTGCAGTGCATATGAACGAC
 TGCTATAGCCGCCTGCGGAGGCTGGTGCCACCATCCCGCCAACAAGAAAGTCAGCAAAGTGGAGATCC
 TGCAGCACGTTATCGACTACATCCTGGACTGCAGCTGGCGCTGGAGACGCACCCGGCCCTGCTGAGGCA
 GCCACCACCGCCCGCCGCCACACCACCCGGCCGGGACCTGTCCAGCCGCGCCGCGCGGACCCCGCTC
 ACTGCGCTCAACACCGACCCGGCCGCGCGGTGAACAAGCAGGGCGACAGCATTCTGTGCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204170 representing NM_001546
 Red=Cloning site Green=Tags(s)

MKAVSPVRPSGRKAPSGCGGELALRCLAIEHGSLGGSAAAAAAAAARCKAAEAAADEPALCLQCDMND
 CYSRLRRLVPTIPPNNKVKVEILQHVIDYILDQLALETHPALLRQPPPPAPPHHPAGTCPAAPRPTPL
 TALNTDPAGAVNKQGDSILCR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001546

ORF Size: 483 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_001546.4](#)

RefSeq Size: 2389 bp

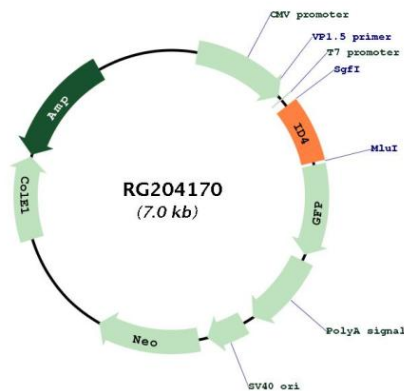
RefSeq ORF: 486 bp

Locus ID: 3400

UniProt ID: [P47928](#)

Cytogenetics:	6p22.3
Domains:	HLH
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	TGF-beta signaling pathway
Gene Summary:	This gene encodes a member of the inhibitor of DNA binding (ID) protein family. The encoded protein lacks DNA binding ability, and instead regulates gene expression through binding to and inhibiting basic helix-loop-helix transcription factors. This protein has been implicated in the regulation of diverse cellular processes that play a role in development and tumorigenesis. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG204170