

Product datasheet for **RG205324**

ID2 (NM_002166) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ID2 (NM_002166) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ID2
Synonyms: bHLHb26; GIG8; ID2A; ID2H
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205324 representing NM_002166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAGCCTTCAGTCCCCTGAGGTCCGTTAGGAAAAACAGCCTGTCGGACCACAGCCTGGGCATCTCCC
 GGAGCAAACCCCTGTGGACGACCCGATGAGCCTGCTATACAACATGAACGACTGCTACTCCAAGCTCAA
 GGAGCTGGTGCCAGCATCCCCAGAACAAGAAGGTGAGCAAGATGAAAATCCTGCAGCACGTATCGAC
 TACATCTTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATTGTGAGCCTGCATCACCAGAGACCCG
 GGCAGAACAGGGCTCCAGGACCGCTGACCACCCTCAACACGGATATCAGCATCTGCTTGCAGGC
 TTCTGAATTCCTTCTGAGTTAATGTCAAATGACAGCAAAGCACTGTGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205324 representing NM_002166
 Red=Cloning site Green=Tags(s)
 MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDYCYSKLKELVPSIPQNKVSKMEILQHVID
 YILDQLIALDSHPTIVSLHHQRPGQNQASRTPLTTLNTDISILSLQASEFPSELMNSDKALCG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002166

ORF Size: 402 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_002166.5](#)

RefSeq Size: 1402 bp

RefSeq ORF: 405 bp

Locus ID: 3398

UniProt ID: [Q02363](#)

Cytogenetics: 2p25.1

Domains: HLH

Protein Families: ES Cell Differentiation/IPS, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Protein Pathways: TGF-beta signaling pathway

Gene Summary: The protein encoded by this gene belongs to the inhibitor of DNA binding family, members of which are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the inhibitor of DNA binding family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative manner by suppressing their heterodimerization partners through the HLH domains. This protein may play a role in negatively regulating cell differentiation. A pseudogene of this gene is located on chromosome 3. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG205324