

Product datasheet for **SC118791**

ID2 (NM_002166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ID2 (NM_002166) Human Untagged Clone
Tag:	Tag Free
Symbol:	ID2
Synonyms:	bHLHb26; GIG8; ID2A; ID2H
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118791 sequence for NM_002166 edited (data generated by NextGen Sequencing) ATGAAAGCCTTCAGTCCCGTGAGGTCCGTTAGGAAAAACAGCCTGTCGGACCACAGCCTG GGCATCTCCCGGAGCAAACCCCTGTGGACGACCCGATGAGCCTGCTATACAACATGAAC GACTGCTACTCCAAGCTCAAGGAGCTGGTGCCAGCATCCCCAGAACAAGAAGGTGAGC AAGATGGAAATCCTGCAGCACGTCATCGACTACATCTTGGACCTGCAGATCGCCCTGGAC TCGCATCCCACTATTGTGAGCCTGCATCACCAGAGACCCGGCAGAACCCAGGCGTCCAGG ACGCCGCTGACCACCCTCAACACGGATATCAGCATCCTGTCTTGCAGGCTTCTGAATTC CCTTCTGAGTTAATGTCAAATGACAGCAAAGCACTGTGTGGCTGA

Clone variation with respect to NM_002166.4



[View online »](#)

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_002166 unedited
GATTTTGTAAATACGACTTTCTATAGGCGCGCCGGAATTCGCACGAGGCCGGTGCCATTC
GCAGCTAGCTCAGCAGGCCGCGAGCGGGCCTGAGCTTCAGGGACTGCCAGCTCCCTCCC
GGTCTCGCCTTCCTCGCGGTGAGCATGAAAGCCTTCAGTCCCCTGAGGTCCGTTAGGAA
AAACAGCCTGTGCGACCACAGCCTGGGCATCTCCCGAGCAAACCCCTGTGGACGACCC
GATGAGCCTGCTATACAACATGAACGACTGCTACTCCAAGCTCAAGGAGCTGGTGCCAG
CATCCCCCAGAACAAGAAGGTGAGCAAGATGAAATCCTGCAGCACGTCATCAACTACAT
CTTGGACCTGCAGATCGCCCTGGACTCGCATCCCCTATTGTGAGCCTGCATCACCAGAG
ACCCGGGCAGAACAGGCGTNCAGGACGCCGCTGACCACCCTCAACACGGATATCAGCAT
CCTGTCCTTGACGGCTTCTGAATTCCTTCTGAGTTAATGTCAAATGACAGCAAAGCACT
GTGTGGTGAATAAGCGGCGTTCATGACTTCTTTTATTCTTTGCACAACAACAACAACA
CAAATTCACGGAATCTTTAAGTGTGACCTATATTTTTCAACCATCTTCCCCACGACGA
CAAGTTGAATGGACCTTTTTAAAAAGAAAACAAAATGGAAGGAACACTAAGAATGATCA
CTTTCCAGGGTCTCTTACTTGCAGTGTGATATTCGATTTATGAAAAAGACTTT
TAAATGCCCTTTCTGCAGTTGGAAGGTCTCTTTATATACTATTCACCATGGGGAAG
CGAAAACGGTTAACATCACCAGGAATTGCCAATCTTAGCCAGACTTTGCCCTCTTTTCA
AAGGTGGAGCCGTGAATACCATNAAGGTATCCAGTTTCAACCCCTAAAATGAAGGCTTN
TGGTCACGAAATCCCTTCTTGACACAACCTTAG
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_002166 unedited
NNNNNNNNCCCCCCCCNCCGCCCCNTNCNGGGTTTGCNTTGCCCGGCGCCGATTTCA
CGATCGGTTTTTTTTTTTTTTTTNTGATTCAGAACTGTTTTATTATAATCTTATACAG
TCTACATAAAATTTGAACCTGCATTTATTTGGGTTGAGCTATAACATAGCATAATATAAT
CAAAGCACTGGCCCTCTGAAACAAGCAGGCACTCACCATTCACTAAACACCCTTGACTT
ATTTTGTATAAAAGGGTTAAGTTTACCCTCAACTTTCATACAAAAGTTACCATGAATAA
GCACATCATTACCCTTTTGAATGCAGAAATAGACATCTCTGCCACTATACAACAACAAC
TAATTAACAGCTCACAACGGTTTACCTCAAATAGATATATTTATCCCTAAATATATAC
ACAGCACTCAGCCGGCTTGTGTCAAAAAGGTAATTTCTGACCAAAAGACTTCATTTTAC
TGCCCGAACTCCTGGATCCTTCTGCCATTACGCTCCACCTTTGAAAAAGGCAAAGTCT
GCTTACATTGGGCCATTCTCTGTGATCCTAACGCTCTCGCTCCCCTGGTGGGAATAGT
ATATAAACAAAATCTTCCACTGCCGACAGGCCCTCTCCCAACGCCTTTCTCATACCCA
CCGAAATATCACAGCCCCACGCAAGAAAACCCCTGCCAAGATGAACATTCTTAACCCCTC
CCTTATTCTTTCTTTTTTTTCAAACCCGGTCCATTCCACCCGTCCTCCTTGGGAAAG
GCTCCCCAAATCATCCCCACCCTTCCCCATTCCCCGAATTCTCGTTCCCCCTGTCCC
CCCCAAAACAAAACCCCCCACCCGCTCATTACCACCACCGGCGCTTTGCTGTATT
TGTCCCCACCCTCAACGGCACTTTAAAACCCGCCAGGCC
```

Restriction Sites:

NotI-NotI

ACCN:

NM_002166

Insert Size:

1280 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_002166.4 , NP_002157.2
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:	<p>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]</p>