

## Product datasheet for **SC125462**

### ID1 (NM\_002165) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ID1 (NM_002165) Human Untagged Clone
Tag:	Tag Free
Symbol:	ID1
Synonyms:	bHLHb24; ID
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002165, the custom clone sequence may differ by one or more nucleotides

```
ATGAAAGTCGCCAGTGGCAGCACCCGCCACCGCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAAGA  
CAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGG  
GGGCGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAACGTGCTGCTCTACGACATGAAC  
GGCTGTTACTCACGCCTCAAGGAGCTGGTGGCCACCTGCCCCAGAACC GAAGGTGAGCAAGGTGGAGA  
TTCTCCAGCACGTCATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACCGGAATCCGAAGTTGGAAC  
CCCCGGGGCCGAGGGCTGCCGGTCCGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACG  
GCCGAGGGCGCATGCGTTCCTGCGGACGATCGCATCTTGTGTCGCTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002165 unedited  
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTTCCGTATCTGCTTCGGG  
 CTTCCACCTCATTTTTTCGCTTTGCCATTCTGTTTCAGCCAGTCGCCAAGAATCATGA  
 AAGTCGCCAGTGGCAGCACCGCCACCGCCCGCGGGCCCCAGCTGCGCGCTGAAGGCCG  
 GCAAGACAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGAGCGTGGCCA  
 TCTCGCGCTGCGCCGGGGCGCCGGGGCGCCCTGCCTGCCCTGGACGAGCAGCAGG  
 TAAACGTGCTGCTCTACGACATGAACGGCTGTTACTCACGCCTCAAGGAGCTGGTCCCA  
 CCTGCCCCAGAACCAGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGTATCGACTACA  
 TCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGGACCCCGGGGGCCGAG  
 GGCTGCCGGTCCGGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACGGCCG  
 AGGCGGCATGCGTTCCTGCGGACGATCGCATCTTGTGTCGCTGAAGCGCCTCCCCAGGG  
 ACCGGCGGACCCAGCCATCCAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCC  
 AACCGCCTCGCCGATCTGAGGGAGAACAAGACCGATCGCGGCCACTGCGCCCTAAC  
 TGCATCCAGCCTGGGGCTGAGGCTGANGCACTGGCGAGGAGAGGGCGCTCCTCTGCAC  
 ACCTACTAGTCACCAGAGACTTTGGGNGGTGGGATTTCACTCGTGTGTTTTCTATTTTTG  
 AAAAGCAGACATTTAAAAATGCTCACGTTTGGTGGCTCTCANATTCTGAGAAANTGCTT  
 TGTATGTATATACATGATCACGACTGAGATATGTTTTACATAGTCTGTGGGCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002165 unedited  
 CCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAACCATCTATTTATTTG  
 TTTAATAACAAAAAACAGCCCCACAAAATTTGTAACAATATTCTCAGTCGGGGAT  
 CATTGTAATATAAATAACAAAGCAATTTCTCAAAAATCTGAGAAGCACCAAACGTGACC  
 ATTTTTTAAAATGTCTGCTTTTCAAAAAATAAAAACACACGAGTGAATCCCACCCCTA  
 AAGTCTCTGGTACTAGTAGGGGTGCAAAGAGGAGCGCCCTCTCCTCGCCAGTGCCTCAG  
 CCTCAGCCCCAGGCTGGATGCAGTTAAGGGCGCAGTGGCCGCCGATCGGTCTTGTCTCC  
 CTCAAATCCGGCGAGGCGGTTGGGGGAGACCCACAGAGCACGTAATTCCTTTGCCCCC  
 TGGATGGCTGGGGTCCGCCGCTCCCTGGGGGAGGCGCTTACAGCAGACAAAGATGCGATCG  
 TCCGCAGGAACGCATGCCGCTCGGCCGTGAGGGCGTATCTCGCCGTTGAGGGTGTG  
 AGCGGAGCCCGGACCGGCAGCCCTCGGCCCGGGGTCCCAACTTCGGATTCCGAGTTC  
 AGCTCCAATGAAGTCCCTGATGACTCGATGACGTGCTGGAGAATCTCACCTTGCTC  
 ACCTTGCCGTTCTGGGGCAGGGTGGGCACCAGCTCCTTGAGGCGTTGAGAACAGCCGTT  
 ATGTCGTAAGCAGCACGTTTACCTGCTGCTCGCCACAGGAAGGCCAGGCCCCCCCGC  
 GCCCCCGCGCACCGGAAATGCCCCCTCTGCTACACGTAAGTGCACCCTCCCCGA  
 ACGTTCCGTGTTTGGCGCCTTACGCCCAATTGGGGCCCGGGGGCGGGCGGGCTGCT  
 ACTGCCACTTAATGATTCTGGCCTTGGCCGAACCAATGGCCACCCAAAAAGTAGGGAACC  
 CCGAGCAATGGAACCTCGGCCGATTGCGCCCTCTATTGAGTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002165

**Insert Size:**

1060 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_002165.2](#), [NP\\_002156.2](#)

**RefSeq Size:** 993 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

**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]  
Transcript Variant: This variant (1) encodes the longer isoform (a, also called ID-1H).