

## Product datasheet for MR227565

### Id4 (NM\_031166) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Id4 (NM\_031166) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Id4  
**Synonyms:** bHLHb27; ldb4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227565 representing NM\_031166  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCGGTGAGCCCGGTGCGCCCTCGGGCCGCAAGGCGCCGTGGGCTGCGGCGGGGAGCTGG  
 CGCTACGCTGCCTGGCGGAGCACGGCCACAGCTGGGTGGCTCGGCAGCCGCCCGCCGCTGCGGCGGC  
 CGCGCGTGCAAGGCGCCGAGGCGGCGCGATGAGCCGGCGTGTGCCTGCAGTGCATGAACGAC  
 TGCTACAGTCGCCTGCGGAGGCTCGTGCCTACCATCCCGCCAACAAGAAAGTCAGCAAAGTGGAGATCC  
 TGCAGCACGTTATCGACTACATCCTGGACTGCAGCTGGCGCTGGAGACTCACCTGCTTTGCTGAGACA  
 GCGGCCACCGCCGCGCCACCTCTCCACCGCGCCGGGCTTGTCCGGTGCGCCGCGCGGACCCCACTC  
 ACCGCGCTCAACTGACCCGGCGCGCGCTGAACAAGCAGGGTACAGCATTCTGCGCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >MR227565 representing NM\_031166  
 Red=Cloning site Green=Tags(s)

MKAVSPVRPSGRKAPSGCGGELALRCLAHEHSHLGGSAAAAAAAAAARCKAAEAAADEPALCLQCDMND  
 CYSRLRRLVPTIPPNNKVKVEILQHVIDYILDQLALETHPALLRQPPPPAPPLHPAGACPVPAPRTP  
 TALNTDPAGAVNKQGDSILCR

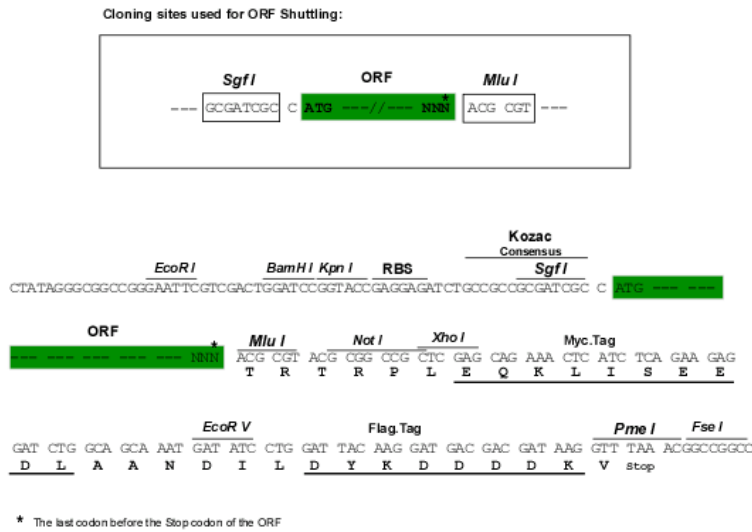
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_g05.zip](https://cdn.origene.com/chromatograms/mm9033_g05.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_031166

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\\_031166.3](#)

RefSeq Size: 1660 bp

RefSeq ORF: 486 bp

Locus ID: 15904

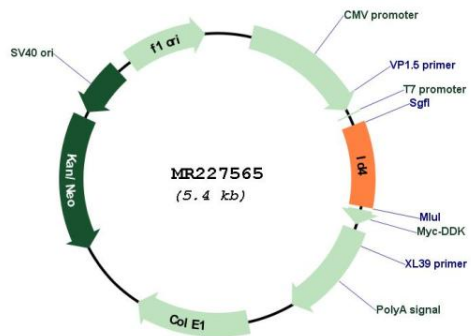
UniProt ID: [P41139](#)

Cytogenetics: 13 24.71 cM

MW: 17 kDa

**Gene Summary:** Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR227565