

Product datasheet for **SC127564**

ID4 (NM_001546) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ID4 (NM_001546) Human Untagged Clone
Tag:	Tag Free
Symbol:	ID4
Synonyms:	bHLHb27; IDB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127564 sequence for NM_001546 edited (data generated by NextGen Sequencing)

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ATGAAGCGGTGAGCCCGGTGCGCCNCCNNGCCGCAAGCGCCGTCGGGCTGCGCGGGC
GGGGAGCTGGCGCTGCGCTGCCTGGCCGAGCACGCCACAGCCTGGGTGGCTCCGCAGCC
GCGGCGGCGGCGGCGGCGGCGAGCGCGCTGTAAGCGGCCGAGGCGGCGCCGACGAGCCG
GCGCTGTGCCTGCAGTGCATATGAACGACTGCTATAGCCGCTGCGGAGGCTGGTGCC
ACCATCCCGCCAACAAGAAAGTCAGCAAAGTGGAGATCCTGCAGCACGTTATCGACTAC
ATCCTGGACCTGCAGCTGGCGTGGAGACGCACCCGGCCCTGCTGAGGCAGCCACCACCG
CCCGCGCCGACACCACCCGGCCGGGACCTGTCCAGCCGCGCCGCCGCGGACCCCGCTC
ACTGCGCTCAACACCGACCCGGCCGGCGGTTGAACAAGCAGGGCGACAGCATTCTGTGC
CGCTGA
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Clone variation with respect to NM_001546.2
27 c=>n;30 g=>n;31 g=>n



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001546 unedited TTTGTATACGACTCCTATAGGGCGGCCGATTTCGGCACGAGGGTCAATTGTTGGGCTCG GGAGTGTGCGGGTGCCTCCGAGCGCGCCGGGCGCGGAGGCAAGGGAGCGGAGCCGGCCGC GGACGGGGCCCGGAGCTTGCCTGCCTCCCTCGCTCGCCCCAGCGGGTTCGCTCGCGTAGA GCGCAGGGCGCGCGCATGAAGGCGGTGAGCCCGGTGCGCCCTCGGGCCGAAGGCGCC GTCGGGCTGCGGCGGGGAGCTGGCGCTGCGCTGCCTGGCCGAGCACGGCCACAGCCT GGGTGGTCCCGACGCCGCGGGCGCGGGCGCGCGGCGCGCTGTAAGGCGGGCCGAGGC GCGGGCCGACGAGCCGGCGCTGTGCCTGCAGTGCATATGAACGACTGCTATAGCCGCT GCGGAGGCTGGTCCACCATCCCGCCCAACAAGAAAGTCAAGAAAGTGGAGATCCTGCA GCACGTTATCGACTACATCCTGGACCTGCAGCTGGCGCTGGAGACGCACCCGGCCCTGCT GAGGCAGCCACCACCGCCGCGCCGNCACACCACCCGGCCGGGACCTGTCCAGCCGCGCC GCCGCGGACCCCGCTCACTGCGCTCAACACCGACCCGGCCGGCGCGGTGAACAAGCAGG GCGACAGCATTCTGTGCCGTGAGCCGCGCTGTCCANGTGTGCGGNCGCCTGAGCCCGAG CCAGGAGCACTAGAGAGGGGAGGGGAGAGCAGNAGTTANAGAAAAAAGCCACCGGAGG GAAAGAAAAAACATCGGCCAACCTAGAAACGTTTTTCATTTCGTCATTCCCAGAGAGAGA GGGAAAGAAAATTCCACTTTTCATTCTTTTGCACGTTATAAACATTCTACATACGTA TTCTCCTTTTGGCCTCTCCATT
Restriction Sites:	NotI-NotI
ACCN:	NM_001546
Insert Size:	3100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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:	<u>NM_001546.2</u> , <u>NP_001537.1</u>
RefSeq Size:	2389 bp
RefSeq ORF:	486 bp
Locus ID:	3400
UniProt ID:	<u>P47928</u>
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]