

## Product datasheet for **SC109407**

### MAX (NM\_145116) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAX (NM_145116) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAX
Synonyms:	bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8; orf1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145116, the custom clone sequence may differ by one or more nucleotides

```
ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGAAGAGCAACCGAGGTTTCAATCTGCGGCTGACA  
AACGGGCTCATCATAATGCACTGGAACGAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCG  
GGACTCAGTCCCATCACTCCAAGGAGAGAAGGCATCCCGGGCCAAATCCTAGACAAAGCCACAGAATAT  
ATCCAGTATATGCGAAGGAAAAACCACACACCAGCAAGATATTGACGACCTCAAGCGGCAGAATGCTC  
TTCTGGAGCAGCAAGGTGAGCACCCGAGCTCGTGGGGCAGCTGGCCCTGCTGTGCTCCAGCCAGGTCAGG  
CTTTGGCACCTGGGCTGCAGAGTCAGAGCCAGTCATGGAGTATGTGCTCAGTAG
```



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**Gene Summary:**

The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Mutations of this gene have been reported to be associated with hereditary pheochromocytoma. A pseudogene of this gene is located on the long arm of chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Transcript Variant: This variant (5) uses an alternate splice site in the 3' coding region and lacks a downstream exon, compared to variant 1. The resulting protein (isoform e) has a distinct C-terminus, compared to isoform a.