

## Product datasheet for SC330921

### MAX (NM\_001271068) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MAX (NM\_001271068) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MAX  
**Synonyms:** bHLHd4  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330921 representing NM\_001271068.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTGGAA  
 CGAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCAAGGA  
 GAGAAGCTCTATTTCTCTTTTGAAATTGTGTACTCCTGTCCTTCATCGTCAAAGTTTGATGCAGAAA  
 TGCCACACCTTCATTCAAGCTACCAAGTGCACAAGAAAAAAGAATGCAAGATTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271068

**Insert Size:** 264 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:**

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\\_001271068.1](#)



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RefSeq Size:	910 bp
RefSeq ORF:	264 bp
Locus ID:	4149
UniProt ID:	<a href="#">P61244</a>
Cytogenetics:	14q23.3
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	MAPK signaling pathway, Pathways in cancer, Small cell lung cancer
MW:	10.4 kDa

**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 (7) lacks two alternate in-frame exons in the coding region and includes an alternate 3' terminal exon compared to variant 1. It encodes isoform g which is shorter and has a distinct C-terminus, compared to isoform a.