

Product datasheet for **SC111653**

MAX (NM_002382) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAX (NM_002382) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAX
Synonyms:	bHLHd4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002382 edited ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGAAGCAACCGAGGTTTCAATCT GCGGCTGACAAACGGGCTCATCATAATGCACTGGAACGAAAACGTAGGGACCACATCAA GACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCAAGGAGAGAAGGCATCCCGG GCCCAAATCCTAGACAAAGCCACAGAATATATCCAGTATATGCGAAGGAAAAACACACA CACCAGCAAGATATTGACGACCTCAAGCGGCAGAATGCTCTTCTGGAGCAGCAAGTCCGT GCACTGGAGAAGGCGAGGTCAAGTGCCCAACTGCAGACCAACTACCCCTCCTCAGACAAC AGCCTCTACACCAACGCCAAGGGCAGCACCATCTCGCTTCGATGGGGGCTCGGACTCC AGCTCGGAGTCTGAGCCTGAAGAGCCCCAAAGCAGGAAGAAGCTCCGGATGGAGGCCAGC TAA
Restriction Sites:	NotI-NotI
ACCN:	NM_002382
Insert Size:	483 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).
OTI Annotation:	no
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).



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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_002382.3</u> , <u>NP_002373.3</u>
RefSeq Size:	2068 bp
RefSeq ORF:	483 bp
Locus ID:	4149
UniProt ID:	<u>P61244</u>
Cytogenetics:	14q23.3
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	MAPK signaling pathway, Pathways in cancer, Small cell lung cancer
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a) which is also known as the long form.</p>