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Product datasheet for SC108216

MAX (NM_145112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAX (NM_145112) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAX
Synonyms:	bHLHd4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145112, the custom clone sequence may differ by one or more nucleotides

ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTGGAAC
GAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCAAGGAGA
GAAGGCATCCCGGGCCCAAATCCTAGACAAAGCCACAGAATATATCCAGTATATGCGAAGGAAAAACCAC
ACACACCAGCAAGATATTGACGACCTCAAGCGGCAGAATGCTCTTCTGGAGCAGCAAGTCCGTGCACTGG
AGAAGGCGAGGTCAAGTGCCCAACTGCAGACCAACTACCCCTCCTCAGACAACAGCCTCTACACCAACGC
CAAGGGCAGCACCATCTCTGCCTTCGATGGGGGCTCGGACTCCAGCTCGGAGTCTGAGCCTGAAGAGCCC
CAAAGCAGGAAGAAGCTCCGGATGGAGGCCAGCTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145112 unedited
GGGGTCAACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGTGAGTG
AGTGAGTGTGTGTGTGGGGGGGACTCGGCTTGTTGTTGTCGGTGACTTCCCCCTCCCCTT
CACCCCTTCCCCTCCCCGCCGCCGCTGCAGTGGCCGCTCCCTGGGCCGTAGGAAATGAGC
GATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTG
GAACGAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCA
TCACTCCAAGGAGAGAAGGCATCCCGGGCCCAAATCCTAGACAAAGCCACAGAATATATC
CAGTATATGCGAAGGAAAAACCACACACACCAGCAAGATATTGACGACCTCAAGCGGCAG
AATGCTCTTCTGGAGCAGCAAGTCCGTGCACTGGAGAAGGCGAGGTCAAGTGCCCAACTG
CAGACCAACTACCCCTCCTCAGACAACAGCCTCTACACCAACGCCAAGGGCAGCACCATC
TCTGCCTTCGATGGGGGCTCGGACTCCACCTACGAGTCTGAGCCTGAAGAGCCCCAAAGC
AGGAAGAAGCTCCGGATGGAGGCCAGCTAAGCCACTCGGGGCAGGCCAGCAATAAAAACT
GTCTGTCTCCATCCGCTCATCCTCCTTTCAGTTCGTTGGTAGAGCCCTCAGGACCATTTA
AGAGACTCTTTATTTTTCACTCTTCTCCTTTTTTTTNTAAAATTTTATTTTTACGTAGAA
GCTTACTGACAACAGCTTTCGTTCTTCTTCCCCATTTCCCTGGATATTTTTAATGGATTC
CCTTCAGGATTCCCTGTCCCCACGGGAATTTTAACCAAACACCCCACCTGGCACTTTTTC
TGTGGAGACCACGGCGGCCGACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145112 unedited
GGGTAGAAATCTTTATGTCTTATGTAAGGGGCGAAGCTTACTTGCAAGACATTTTTCGGC
AGTATGTACAACATACTTTCCTATTTCCATGGAATGGAATCAAACACGAACTGAGACTAC
AGAGTATACACTAGCAAATCAGCAAATGCCAGGAACGGAGTACGCAAAAAGACAAAGAAA
TGAGGCCTAAACACACAAAACCCTTCACTGGCATCTGCTGACCACAGCCAGAACCAGGGC
CTGGATCACACAATGGAGACAGGTTCCAGGACAGTAGGAAAGGAAGTGGGATGAGGGCTG
GGAAGGGTCCGCACTGGGGCGCGGGCCTACTACCAGGTAAATTGCTCCTTGGTATTTACA
TACAAAATCAGGTGGCTCTATTTCTTACAAATACACACGGGAAGAAAGAAAGATTTCATT
ATTACTTTATGAATCTGCCGCTTTGTAAGACCGACATCATCAGAAATAGGTACAATCCAC
TGAGATTCAAATTTAAGTAGCAGGAAATAAATATCAAAACATCATCACTGGCTCTGCATA
CAAAACCTCTATGCTACTCAAAACACCCTCCCTGTCGCAACCCCAAATGGCCACTCCTTG
GTGGCTGCTGCTTCACTGCTGGCACTCTCCCTCCCTATTACGAGAGTGTCACACGGTCCT
CCGCGCAGGCTGGCGCCGTANGCTCAATCCGCTGGTTGAGAGAATCACGACGAAACCCTT
CTCCGATCTGCGCTGCAATCCGCCTTACTTCCTTTTACCCACAAACCTCTTTAAGATCCG
GGCTTCCATACGAGCGATCATACTCCTTAAAAAAAGAACCCAAACACCCTCATAGGAGAG
CGGCCATTTGGGCATCCCACCGTCCATTTCCATACCGTGTTCCCCACCTCACCGTTTCCC
ATTGCGGTTGTCCCCGAGCTTTCCGCCGTTGCCCCCCCGGCATTCCCTGCATGCTGCCGA
CCGTTGG

Restriction Sites: NotI-NotI

ACCN: NM_145112

Insert Size: 2210 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_145112.1, NP_660087.1
RefSeq Size:	2041 bp
RefSeq ORF:	456 bp
Locus ID:	4149
UniProt ID:	P61244
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:	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 (2) lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform b (also known as the short form) which is shorter than isoform a.