

Product datasheet for **SC125672**

MAX (BC003525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAX (BC003525) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAX
Synonyms:	bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8; helix-loop-helix zipper protein; MAX protein; MGC10775; MGC11225; MGC18164; MGC34679; MGC36767; myc-associated factor X; MYC associated factor X; orf1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>OriGene sequence for BC003525 edited
 GAGTGAGTGTGTGTGGGGGGGACTCGGCTTGTGTTGTGCGGTGACTTCCCCCTCCCCT
 TCACCCCTTCCCCTCCCCGCCGCGCTGCAGTGGCCGCTCCCTGGGCCGTAGGAAATGAG
 CGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACT
 GGAACGAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCC
 ATCACTCCAAGGAGAGAAGGCATCCCGGGCCAAATCCTAGACAAAGCCACAGAATATAT
 CCAGTATATGCGAAGGAAAAACACACACACCAGCAAGATATTGACGACCTCAAGCGGCA
 GAATGCTCTTCTGGAGCAGCAAGTCCGTGCACTGGAGAAGGCGAGGTCAAGTGCCCAACT
 GCAGACCAACTACCCCTCCTCAGACAACAGCCTCTACACCAACGCCAAGGCGAGCACCAT
 CTCTGCCTTCGATGGGGGCTCGGACTCCAGCTCGGAGTCTGAGCCTGAAGAGCCCCAAAG
 CAGGAAGAAGCTCCGGATGGAGGCCAGCTAAGCCACTCGGGCAGGCCAGCAATAAAAAAC
 TGTCTGTCTCCATCGTCTCATCCTCCTTTCAGTTCGTTGGTAGAGCCCTCAGAACCATT
 AAGAGACTCTTTATTTTCTCTTCTCCCTTTTTTTTTTAAATTTTTATTTTACGTAG
 AAGCTCTTGGACAACAGCTCTCGTTCCTTCCCATTCCACTGTATATTTTTAATGT
 ATTCCTTCAGGGATTCCCTGTCCCAACAGGAATTTTTAAACAAAACACCCCAACTTG
 GCAGCTTTTTCTGTGGAGGACAGACGGCCGGCCGACCTCTGAGCACATAGTGTCTGCC
 CACCCTACCAGCTCCTCCAGCCCTGCCGGGCACATGCCCGGGGGACGCCTGCCCTGCCCA
 GGTGGCCTCCTGGCCCGCCCTCACCTCTGATAGACTTTGTGAATCTGAACTGCTCTACTT
 TGAGAAGATGACCGGTTTGGAGTAATCAGAATGAACCCTCCTCTTTTTAAGGGTTTTT
 TTTTCTTTTTCTAAAAAGCTATGTATCGCTCCTATTGAAAGACCAGATCCTTAGAGAA
 GTTTGTGGTATAAAAAGGAGTGGGGACAGATTCGCAGCACAGAGTCGCTGGCATGTTTC
 ACTCCTGCTTCTCAGCCAGCTGTTAAGCCTCGGGCCAGCCTCACGGAGGGCCGTG
 TGACACTCTCGTGGTATGTATGGGAGATGGCAGCAGTGAAGCAGCAGCCACCAGGAGTG
 GCCATTTGGGGTTGGGACAGGGAGGGTGTGGGTGGCATAGAGGTTTTGTATTGAGGG
 CCAAGTATGATGTTTTGATATTTTCTGCTACTTAAATTTGAATCTGAGTGAATTGT
 ACCTATTTCTGATGATGTCGGTCTTGCAAAGCGACAGATTCATAAAGTAATGATGAAATC
 TTTCTTTCTCCCGTGTGATTTCTAAGAAATAGAGCCAAGTATTTGTATGTAATAC
 CAAGAGCAATTTACCTGGTACTAAACCCGACCCAGTGCAGCCTTCCAGCCCTCAT
 CCCACTTCTTCTACTGTCTGGAACCTGTCTCCATTGTGTGATCCAGCCCTGGTTCT
 GGCTGTGGTCAGCAGATGCCAGTGAAGGGTTTTGTGTGTTTAGGCCTCATTTCTTTGTCT
 TTTTCTACTCCGTTCTGGCATTGCTGATTTCTAGTGTATACTCTGTAGTCTCAGTTC
 GTGTTTGATTCCATTCCATGAAATAAAAAGTATGTTGTACATACTGCCGAAGAATTGTC
 TTGCAAGTTAAGGCTTCCCCTACTATAAAGACTATAAATAAAAACCTATTTTATCAAAAA
 AAAAAAAAAAACCAAAACCAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC003525 unedited
 GTTCGATTTGTATACGACTCACTATAGGCGCCGTAATTCGCACGAGGGAGTGAGTG
 TGTGTGGGGGGGACTCGGCTTGTGTTGTGCGGTGACTTCCCCCTCCCCTTACCCCTT
 CCCCTCCCGCCCGCTGCAGTGGCCGCTCCCTGGGCCGTAGGAAATGAGCGATAACGA
 TGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTGGAACGAAA
 ACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCA
 AGGAGAGAAGGCATCCCGGGCCAAATCCTAGACAAAGCCACAGAATATATCCAGTATAT
 GCGAAGGAAAAACACACACACCAGCAAGATATTGACGACCTCAAGCGGCAGAATGCTCT
 TCTGGAGCAGCAAGTCCGTGCACTGGAGAAGGCGAGGTCAAGTGCCCAACTGCAGACCA
 CTACCCCTCCTCAGACAACAGCCTCTACACCAACGCCAAGGGCAGCACCATCTCTGCCT
 CGATGGGGGCTCGGACTCCAGCTCGGAGTCTGAGCCTGAAGAGCCCCAAAGCAGGAAGAA
 GCTCCGGATGGAGGCCAGCTAAGCCACTCGGGCAGGCCAGCAATAAAAACCTGTCTGTCT
 CCATCGTCTCATCCTCTTTCAGTTCGTTGGTAGAGCCCTCAGAACCATTTAAGAAGACT
 CTATTTTTCTTTTCTCCCTTTTTTTTTTAAATTTTTATTTTACGTAGAAGCTCTTG
 GACACAGCTCTCGTTCCTTCCCATTCCACTGTATATTTTTAATGTATTCCCTTCAG
 GGATTCTGGCCCAACCGAATTTTTAACCAAAACACCCCAACTGGCAGCTTTTCTGT
 GGAAGACAAGGCGCCGCGCCTCTGACCACTAGTGTCCCG

Restriction Sites:	NotI-NotI
ACCN:	BC003525
Insert Size:	2000 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	BC003525.1 , AAH03525.1
RefSeq Size:	1963 bp
Locus ID:	4149
Cytogenetics:	14q23.3
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]