

Product datasheet for RC206812

MAX (NM_145112) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

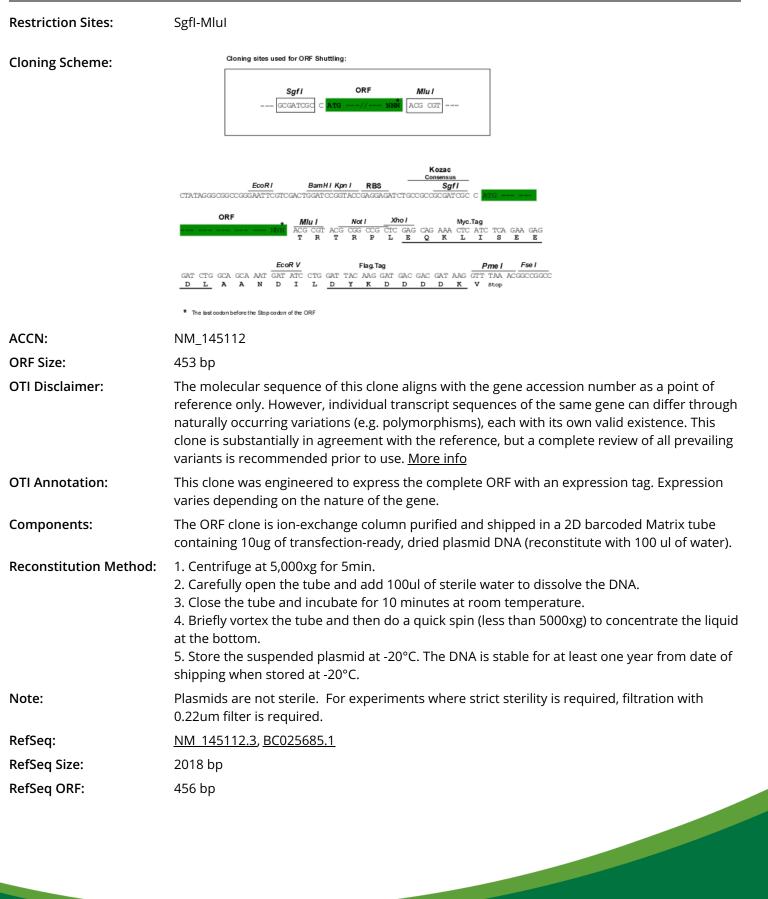
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	MAX (NM_145112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAX
Synonyms:	bHLHd4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC206812 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTGGAAC GAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGCGGGACTCAGTCCCATCACTCCAAGGAGA GAAGGCATCCCGGGCCCAAATCCTAGACAAAGCCACAGAATATATCCAGTATATGCGAAGGAAAAACCAC ACACACCAGCAAGATATTGACGACCTCAAGCGGCAGAATGCTCTTCTGGAGCAGCAAGTCCGTGCACTGG AGAAGGCGAGGTCAAGTGCCCAACTGCAGACCAACTACCCCTCCTCAGACAACAGCCTCTACACCAACGC CAAGGGCAGCACCATCTCTGCCTTCGATGGGTGCTCGGACTCCAGCTCGGAGTCTGAGCCTGAAGAGCCC CAAGGGCAGGAAGAACTCCGGATGGAGGCCAGC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC206812 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MSDNDDIEVESDADKRAHHNALERKRRDHIKDSFHSLRDSVPSLQGEKASRAQILDKATEYIQYMRRKNH THQQDIDDLKRQNALLEQQVRALEKARSSAQLQTNYPSSDNSLYTNAKGSTISAFDGCSDSSSESEPEEP QSRKKLRMEAS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6328_d02.zip



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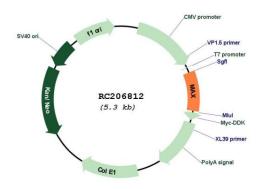
Sorigene MAX (NM_145112) Human Tagged ORF Clone – RC206812



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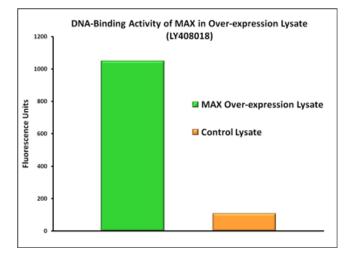
GRIGENE MAX (NM_145112) Human Tagged ORF Clone – RC206812	
Locus ID:	4149
UniProt ID:	<u>P61244</u>
Cytogenetics:	14q23.3
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	MAPK signaling pathway, Pathways in cancer, Small cell lung cancer
MW:	17.2 kDa
Gene Summary:	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]

Product images:



Circular map for RC206812

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158-

106 -

79-

48 -

35 -

23-

116 ----

66 -

45 -

35 -25 -18 - DNA-binding activity of MAX was measured in OriGene over-expression lysate [LY408018] and a control lysate. Three microliters of each lysate was tested with a transcription factor binding assay utilizing MAX-specific DNA sequences. The high level of activity observed in the overexpression lysate compared to the control lysate demonstrates that the expressed MAX is biologically active in the lysate. Overexpression cell lysates are prepared from HEK293T cells transfected with RC206812 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Western blot validation of overexpression lysate (Cat# [LY408018]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206812 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MAX protein (Cat# [TP306812]). The protein was produced from HEK293T cells transfected with MAX cDNA clone (Cat# RC206812) using MegaTran 2.0 (Cat# [TT210002]).

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