

## Product datasheet for **RG235467**

### MAX (NM\_001271069) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MAX (NM\_001271069) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MAX  
**Synonyms:** bHLHd4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >NM\_001271069 ORF sequence, RG235467 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGATAACGATGACATCGAGGTGGAGAGCGACGCTGACAAACGGGCTCATCATAATGCACTGGAA
CGAAAACGTAGGGACCACATCAAAGACAGCTTTCACAGTTTGGGGACTCAGTCCCATCACTCCAAGGA
GAGAAGGGAACAAAGATGAAGTTAACCTCCCACCTGTCTTCTTATGAACACTGCCTTTTCCAAC
GTTTTCTGCCATGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235467  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSDNDDIEVESDADKRAHHNALERKRRDHIKDSFHSRLRDSVPSLQGEKGTKMKLTLPPVFPYEHLPFPT
VFCHG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001271069

**ORF Size:** 222 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001271069.2](#)

**RefSeq Size:** 506 bp

**RefSeq ORF:** 225 bp

**Locus ID:** 4149

**Cytogenetics:** 14q23.3

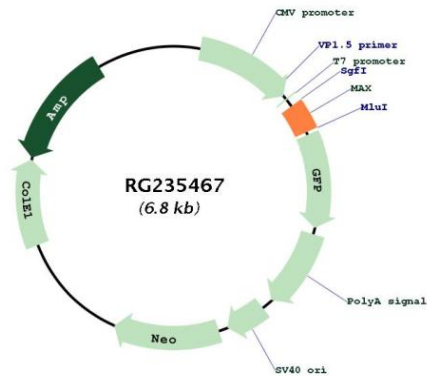
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** MAPK signaling pathway, Pathways in cancer, Small cell lung cancer

**MW:** 8.5 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 RG235467