

Product datasheet for MR220282

Mas1 (NM_008552) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mas1 (NM_008552) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mas1
Synonyms:	Mas-1; MasR; Mgra
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220282 representing NM_008552 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGTCAAATATGACATCCCTTGCTGAAGAGAAAGCCATGAATACCTCCAGCAGAAATGCCTCCC
TGGGGAGCTCACACCCACCCATCCCATAGTGCCTGGGTCATCATGAGCATCTCCCTCTGGGCTTTGT
GGAGAATGGGATCCTCCTCTGGTTCCTCTGCTCCGGATGAGGAGAAATCCCTTCACGGTCTACATTACC
CACTTGCCATTGCTGATATCTCTTTCTGTTCTGTATTTTTATCCTGTCCATTGACTATGCTTTAGACT
ATGAACCTCTTTGCCATCACTACACAATCGTGACATTATCGGTGACTTTTCTATTTGGCTACAACAC
GGCCTCTATCTGCTGACAGCCATCAGTGTGGAGAGGTGCCTATCGGTCTCTACCCCATATGGTACAGA
TGCCACCGCCCAAGCACCAGTCAGCATTCTGCTGTGCCCTTCTGTGGGCACTTTCTGTGCTTGGTGACCA
CCATGGAGTATGTCATGTGATTGACAGCGGAGAAGAGAGTATTCTCGGAGTACTGCCGGCGGTTCAT
CATCTTCATAGCCATCCTCAGCTTCTTGGTCTTCACTCCGCTCATGTTAGTGTCCAGCACCATCTTGGTG
GTGAAGATACGGAAGAACACGTGGGCTCCCATCTTCGAAGCTGTACATTGTATCATGGTCACCATTA
TCATATTCCTCATCTTTGCCATGCCATGCGGGTCTCTACTTGTGTACTACGAGTACTGGTCAGCCTT
TTGTGGGAGCAGTAAGAAGAAGCGCTTCAGGGAGTCTTAAAAGTCGTCTGACCAGGCTTTCAAAG
ATGAAATGCAACCCAGGCCAGGAGGGCAACGGCAACTGTATCCATTGAGACTGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220282 representing NM_008552
 Red=Cloning site Green=Tags(s)

MDQSNMTSLAEEKAMNTSSRNASLGSSHPIPIVHWVIMSISPLGFVENGILLWFLCFMRMRNPFTVYIT
 HLSIADISLLFCIFILSIDYALDYELSSGHHTIVTLVTFVFGYNTGLYLLTAISVERCLSVLYPIWYR
 CHRPKHQSAFVCALLWALSCLVTTMEYVMCIDSGEESHRSRDCRAVIIIFIAILSFLVFTPLMLVSSSTILV
 VKIRKNTWASHSSKLYIVIMVTIIIFLIFAMPMRVLYLLYYEYWSAFGNLHNISLLFSTINSSANPFIYF
 FVGSSKKKRFRESLKVVLTAFKDEMQRPRRQEGNGNTVSIETVV

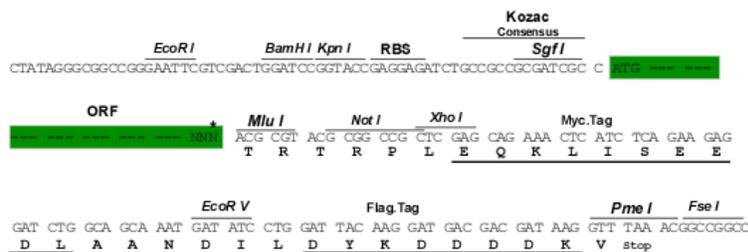
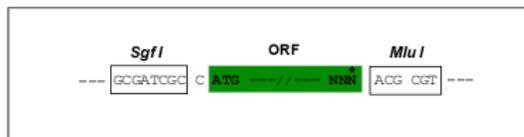
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008552

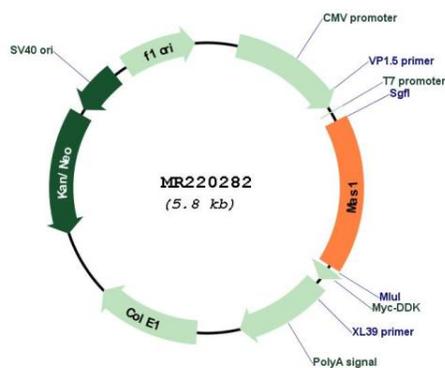
ORF Size: 972 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).
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_008552.5</u> , <u>NP_032578.2</u>
RefSeq Size:	2475 bp
RefSeq ORF:	975 bp
Locus ID:	17171
UniProt ID:	<u>P30554</u>
Cytogenetics:	17 8.69 cM
MW:	37.5 kDa
Gene Summary:	Acts specifically as a functional antagonist of AGTR1 (angiotensin-2 type 1 receptor), although it up-regulates AGTR1 receptor levels. Positive regulation of AGTR1 levels occurs through activation of the G-proteins GNA11 and GNAQ, and stimulation of the protein kinase C signaling cascade. The antagonist effect on AGTR1 function is probably due to AGTR1 being physically altered by MAS1 (By similarity). Receptor for angiotensin 1-7.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220282