

Product datasheet for **RG224124**

MAS1 (NM_002377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAS1 (NM_002377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAS1
Synonyms:	MAS; MGRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224124 representing NM_002377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGGTCAAACGTGACATCATTTGTTGTTGAGGAACCCACGAACATCTCAACTGGCAGGAACGCCT
CAGTCGGGAATGCACATCGGCAATCCCCATCGTGCCTGGTTCATTATGAGCATCTCCCCAGTGGGTT
TGTTGAGAATGGGATTCTCCTCTGGTTCCTGTGCTTCCGGATGAGAAGAAATCCCTTCACTGTCTACATC
ACCCACCTGTCTATCGCAGACATCTCACTGCTCTCTGTATTTTCATCTTGTCTATCGACTATGCTTTAG
ATTATGAGCTTTCTTCTGGCCATTACTACACAATTGTCACATTATCAGTGACTTTTCTGTTGGCTACAA
CAGGGCCTCTATCTGCTGACGGCCATTAGTGTGGAGAGGTGCCTGTCACTCCTTTACCCCATCTGGTAC
CGATGCCATCGCCCAAGTACCAGTCGGCATTGGTCTGTGCCCTTCTGTGGGCTCTTTCTTGGTGGTGA
CCACCATGGAGTATGTCATGTGCATCGACAGAGAAGAAGAGAGTCACTCTCGGAATGACTGCCGAGCAGT
CATCATCTTTATAGCCATCCTGAGCTTCTGGTCTTACGCCCTCATGCTGGTGTCCAGCACCATCTTG
GTCGTGAAGATCCGGAAGAACACGTGGGCTTCCATTCTCCAAGCTTTACATAGTCATCATGGTACCA
TCATTATATTCTCATCTTCGCTATGCCATGAGACTCCTTACCTGCTGTAATGAGTATTGGTGCAG
CTTTGGGAACCTACACCACATTTCCCTGCTCTTCTCCACAATCAACAGTAGCGCCAACCCCTTTCATTAC
TTCTTTGTGGGAAGCAGTAAGAAGAAGAGATTCAAGGAGTCCTTAAAAGTTGTTCTGACCAGGCTTTCA
AAGATGAAATGCAACCTCGCGCCAGAAAGACAATTGTAATACGGTCACAGTTGAGACTGTCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224124 representing NM_002377
Red=Cloning site Green=Tags(s)

MDGSNVTSFVVEEPTNISTGRNASVGNHRQIPIVHWVIMSISPVGFVENGILLWFLCFMRMRNPFTVYI
 THLSIADISLLFCIFILSIDYALDYELSSGHYYTIVLTSVTFVFGYNTGLYLLTAISVERCLSVLYPIWY
 RCHRPKYQSALVCALLWALSCLVTTMEYVMCIDREEESHNRDCAVHIFIAILSFLVFTPLMLVSTIL
 VVKIRKNTWASHSSKLYIVIMVTIIIFLIFAMPMRLLYLLYYEYWSTFGNLHHISLLFSTINSSANPFIY
 FFVGSKKKRFKESLKVVLTRAFKDEMQRPRQKDCNCNTVTVETVV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1728_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_002377

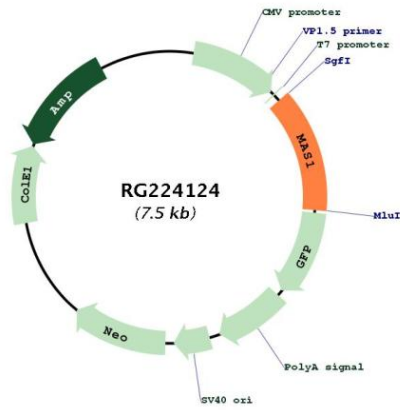
ORF Size: 975 bp

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:	NM_002377.4
RefSeq Size:	1135 bp
RefSeq ORF:	978 bp
Locus ID:	4142
UniProt ID:	P04201
Cytogenetics:	6q25.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction, Renin-angiotensin system
Gene Summary:	This gene encodes a class I seven-transmembrane G-protein-coupled receptor. The encoded protein is a receptor for angiotensin-(1-7) and preferentially couples to the Gq protein, activating the phospholipase C signaling pathway. The encoded protein may play a role in multiple processes including hypotension, smooth muscle relaxation and cardioprotection by mediating the effects of angiotensin-(1-7). [provided by RefSeq, May 2012]

Product images:



Circular map for RG224124