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Product datasheet for RG207706

MAST4 (NM_198828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAST4 (NM_198828) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAST4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207706 representing NM_198828
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGAAAGTTTCGGAGGCGCCAGAGCCGGTGCCCCGCGGCTGCAGTGGCCACGGCAGCCGGACTC
CAGCCTCTGCGCTGGTCGCCGCGTCCTCTCCGGGTGCTTCCTCGGCCGAGTCCTCCTCGGGCTCAGAAAC
TCTGTCGGAGGAAGGGGAGCCCGGCGGCTTCTCCAGAGAGCATCAGCCGCCGCCGCCGCCGCCGTTGGGA
GGCACCCTGGGCGCCCGGGCGCCCGCCGCGTGGGCTCCGGCAAGCGTGCTGCTGGAGCGCGGAGTCCTTG
CGCTGCCGCCGCCGCTTCCCGGAGGAGCTGTGCCGCCCGCGCCCCGGGGCAGCAGCGCGTCCCAGGAGGA
GCAGGACGAGGAGCTTGACCACATATTATCCCCTCCACCCATGCCGTTTCGGAAATGCAGCAACCCAGAT
GTGGCTTCTGGCCCTGGAAAATCACTGAAGTATAAAAGACAGCTGAGTGAGGATGGAAGACAGCTAAGGC
GAGGGAGCCTGGGAGGAGCCCTGACTGGGAGGTACCTTCTTCCAAACCCGGTGGCGGGACAGGCCTGGCC
GGCCTCTGCAGAGACGTCCAACCTCGTGCGCATGCGCAGCCAGGCCCTGGGCCAGTCGGCGCCCTCGCTC
ACCGCCAGCCTGAAGGAGCTGAGTCTCCCCAGAAGAGGAAGTTTGATAGATTCCCAGAAGTGGAATTGCT
TGGTCAAACGCCCTGTGTGTCCAAATGCTGGGAGAACATCACCCCTTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207706 representing NM_198828
Red=Cloning site Green=Tags(s)

MGEKVSEAPEPVPRGCSGHGSRTPASALVAASSPGASSAESSSGSETLSEEGEPGGFSREHQPPPPPPLG
GTLGARAPAAWAPASVLLERGVLALPPPLPGGAVPPAPRGSSASQEEQDEELDHILSPPPMPFRKCSNPD
VASGPGKSLKYKRQLSEDGRQLRRGSLGGALTGRYLLPNPVAGQAWPASAETSNLVRMRSQALGQSAPSL
TASLKELSLPRRGSLIDSQKWNCLVKRPVCPNAGRTSPLG

TRTRPLE - GFP Tag - V

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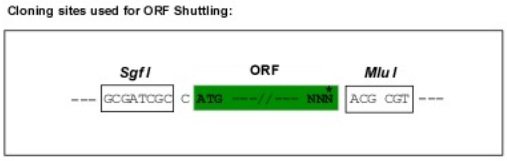
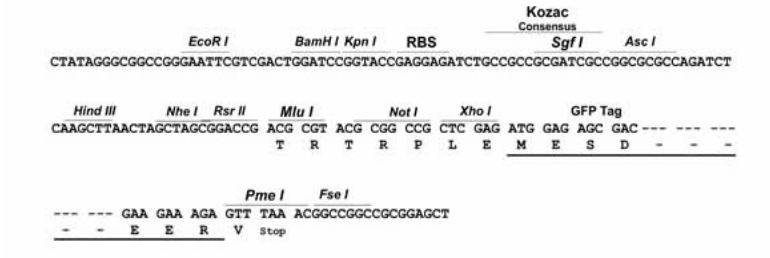
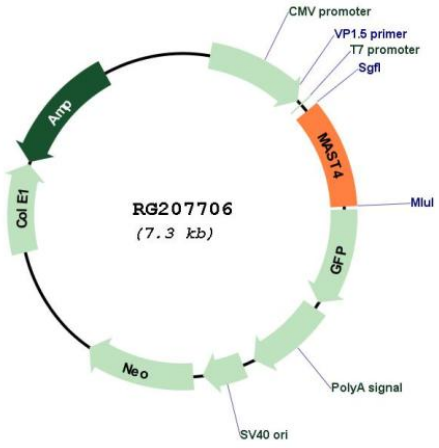
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN: NM_198828

ORF Size: 750 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).
Reconstitution Method:	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_198828.3
RefSeq Size:	1105 bp
RefSeq ORF:	753 bp
Locus ID:	375449
UniProt ID:	O15021
Cytogenetics:	5q12.3
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the microtubule-associated serine/threonine protein kinases. The proteins in this family contain a domain that gives the kinase the ability to determine its own scaffold to control the effects of their kinase activities. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]