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Product datasheet for RC236826

MAST4 (NM_001290228) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MAST4 (NM_001290228) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: MAST4

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence:

>RC236826 representing NM_001290228
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGAAAGTTTCGGAGGCGCCAGAGCCGGTGCCCCGCGGCTGCAGTGGCCACGGCAGCCGGACTC
CAGCCTCTGCGCTGGTCGCCGCGTCCTCTCCGGGTGCTTCCTCGGCCGAGTCCTCCTCGGGCTCAGAAAC
TCTGTCGGAGGAAGGGGAGCCCGGCGGCTTCTCCAGAGAGCATCAGCCGCCGCCGCCGCCGCCGTTGGGA
GGCACCCTGGGCGCCCGGGCGCCCGCCGCGTGGGCTCCGGCAAGCGTGCTGCTGGAGCGCGGAGTCCTTG
CGCTGCCGCCGCCGCTTCCCGGAGGAGCTGTGCCGCCCGCGCCCCGGGGCAGCAGCGCGTCCCAGGAGGA
GCAGGACGAGGAGCTTGACCACATATTATCCCCTCCACCCATGCCGTTTCGGAAATGCAGCAACCCAGAT
GTGGCTTCTGGCCCTGGAAAATCACTGAAGTATAAAAGACAGCTGAGTGAGGATGGAAGACAGCTAAGGC
GAGGGAGCCTGGGAGGAGCCCTGACTGGGAGGTACCTTCTTCCAAACCCGGTGGCGGGACAGGCCTGGCC
GGCCTCTGCAGAGACGTCCAACCTCGTGCGCATGCGCAGCCAGGCCCTGGGCCAGTCGGCGCCCTCGCTC
ACCGCCAGCCTGAAGGAGCTGAGTCTCCCCAGAAGAGGAAGTTTCCCTGTGTGTCCAAATGCTGGGAGAA
CATCACCCCTTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC236826 representing NM_001290228
Red=Cloning site Green=Tags(s)

MGEKVSEAPEPVPRGCSGHGSRTPASALVAASSPGASSAESSSGSETLSEEGEPGGFSREHQPPPPPPLG
GTLGARAPAAWAPASVLLERGVLALPPPLPGGAVPPAPRGSSASQEEQDEELDHILSPPPMPFRKCSNPD
VASGPGKSLKYKRQLSEDGRQLRRGSLGGALTGRYLLPNPVAGQAWPASAETSNLVRMRSQALGQSAPSL
TASLKELSLPRRGSFPVCPNAGRTSPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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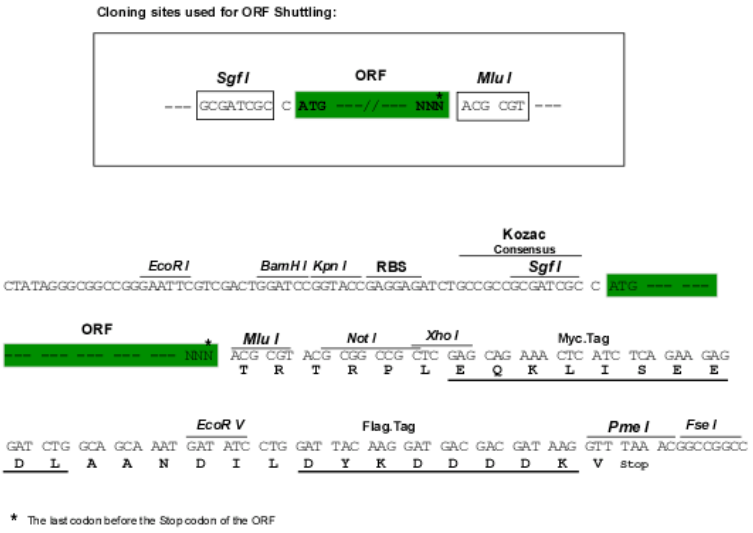
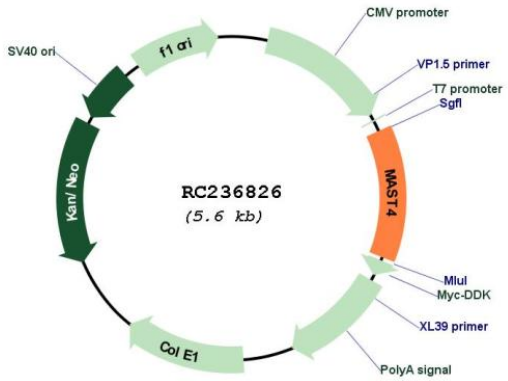
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290228

ORF Size: 714 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_001290228.2
RefSeq Size:	1062 bp
RefSeq ORF:	717 bp
Locus ID:	375449
UniProt ID:	O15021
Cytogenetics:	5q12.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	24.7 kDa
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]