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Product datasheet for SC304190

MAST1 (NM_014975) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAST1 (NM_014975) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAST1
Synonyms:	MCCCHCM; SAST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304190 representing NM_014975. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTGACTCTCTCTGGACCGCGCTTTCTAATTTCTCGATGCCCTCCTTCCCCGGCGGCAGTATGTTC
CGCCGCACCAAGAGCTGCCGCACCAGTAATCGGAAAAGCCTCATCCTGACCAGCACTTCACCCACGCTA
CCGAGACCCCACTCCCCGCTGCCAGGTCACCTAGGCAGCAGTCCCCTGGACAGCCCCCGAAACTTCTCC
CCCAACACCCCCGCCCACTTCTCGTTTGCCTCCTCCCGAAGGGCGGACGGACGCCGGTGGTCTCTGGCC
TCGCTCCCTTCATCTGGCTATGGCACCAACACGCCCAGTTCCACCGTCTCGTCCTCCTGCTCCTCCCAG
GAGCGCCTTCACCAGCTGCCCTACCAGCCCACGGTGGACGAGCTCCACTTCCTCTCCAAACACTTCGGG
AGCACCGAGAGCATCACAGACGAGGATGGTGGCCGTCGCTCCCCAGCCGTGCGGCCCCGCTCACGGAGC
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AGTGGTGGTTCCAACACCCCTGAGCAAGACGATCTCTCTGAGGGCCGCAGCAGCAAGGCCAAGAAACCG
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GCCCTGGAGTATTTGCACAACTATGGCATCGTGCACCGCGACCTCAAGCCTGACAACCTCCTTATCACC

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TCCATGGGTCACATCAAGCTCACAGATTTCGGCCTCTCCAAGATGGGGCTCATGAGCCTCACCACCAAC
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GCCAGGGCTGTGGCCAAGGCGGCGCTGAGCCCGGTGCAGGAACACGAGACAGGCCGGCGCAGCAGCTCT
GGCGAGGCGGGCACACCCCTGGTACCCATTGTCGTAGAGCCTGCGCGGCCCGGGGCTAAGGCTGTGGTG
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GCCCCCCGGGGCCGGGAGCGCTGGGTGTTGGAGGTGGTGGAGGAGCGCACCACGCTGAGCGGTCCTCGC
TCCAAGCCCGCCTCCCCAAAGCTCTCCCCGGAGCCCCAGACACCCTCCCTAGCCCCAGCGAAGTGCAGT
GCACCCAGCAGTGCAGTGACCCCAGTCCCACCCGCATCCCTCTTGGGCTCAGGCACCAAGCCTCAAGTG
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CCCGCACCCCCGGGACCATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_014975

Insert Size:	4713 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_014975.2
RefSeq Size:	4933 bp
RefSeq ORF:	4713 bp
Locus ID:	22983
UniProt ID:	Q9Y2H9
Cytogenetics:	19p13.13
Protein Families:	Druggable Genome, Protein Kinase
MW:	170.7 kDa
Gene Summary:	This gene is a member of the microtubule-associated serine/threonine kinase (MAST) family. The protein encoded by this gene has an N-terminal serine/threonine kinase domain followed by a postsynaptic density protein-95/discs large/zona occludens-1 (PDZ) domain. In mouse and rat, the orthologous protein associates with the cytoskeleton and can bind both beta-2-syntrophin and neuronal nitric oxide synthase (nNOS) through its PDZ domain. In mouse and rat, this protein also co-localizes with dystrophin- and utrophin-associated protein complexes (DAPC/UAPC) in the vascular endothelium of the central nervous system. [provided by RefSeq, May 2017]