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Product datasheet for SC123160

MSI2 (NM_138962) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSI2 (NM_138962) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSI2
Synonyms:	MSI2H
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_138962 edited
CTCGCCGCTGCCCCGGCTCCGCCGCTCGCAGAGAGATTCGGAGGAGCCCGGGCGGGGGGG
AGGAGGAGGGGGAGGAGGGAGCGGAGATCTCGGGGCTCGGAGCCGGCCGCCGCTCCGCTC
CGATCGCTGTGGGGCTTGGTTTTTTGGGGGTGGGGGGGCGGGGGGGCTCAGATATGGAGG
CAAATGGGAGCCAAGGCACCTCGGGCAGCGCCAACGACTCCCAGCACGACCCCGGTAAAA
TGTTTATCGGTGGACTGAGCTGGCAGACCTCACCAGATAGCCTTAGAGACTATTTTAGCA
AATTTGGAGAAATTAGAGAATGTATGGTCATGAGAGATCCCACTACGAAACGCTCCAGAG
GCTTCGGTTTCGTCACGTTCGCAGACCCAGCAAGTGTAGATAAAGTATTAGGTCAGCCCC
ACCATGAGTTAGATTCCAAGACGATTGACCCCAAAGTTGCATTTCCTCGTCGAGCGCAAC
CCAAGATGGTCACGAGAACAAAGAAAATATTTGTAGGCGGGTTATCTGCGAACACAGTAG
TGGAAGATGTAAAGCAATATTTCGAGCAGTTTGGCAAGGTGGAAGATGCAATGCTGATGT
TTGATAAAACTACCAACAGGCACAGAGGGTTTGGCTTTGTCACTTTTGAGAATGAAGATG
TTGTGGAGAAAGTCTGTGAGATTCATTTCCATGAAATCAATAATAAAATGGTAGAATGTA
AGAAAGCTCAGCCGAAAGAAGTCATGTTCCCACCTGGGACAAGAGGCCGGGCCCGGGGAC
TGCCTTACACCATGGACGCGTTCATGCTTGGCATGGGGATGCTGGGATATCCCAACTTCG
TGGCGACCTATGGCCGTGGCTACCCCGGATTTGCTCCAAGCTATGGCTATCAGTTCCCAG
GCTTCCCAGCAGCGGCTTATGGACCAGTGGCAGCAGCGGCGGTGGCGGCAGCAAGAGGAT
CAGGCTCCAACCCGGCGCGGCCCGGAGGCTTCCCGGGGGCCAACAGCCCAGGACCTGTCG
CCGATCTCTACGGCCCTGCCAGCCAGGACTCCGGAGTGGGGAATTACATAAGTGCGGCCA
GCCCACAGCCGGGCTCGGGCTTCGGCCACGGCATAGCTGGACCTTTGATTGCAACGGCCT
TTACAAATGGATACCATTGAGCAGGTGCTTTCGTTGCCATCTCACTCTGAGAGCATACCT
GGATGTCCAGGCAAGACTGGGCGAAGTTTCTGAGTGGCCCTTTGTTTAGGTGATGTCCTC
AGACCTGGACCCCCACCAGCCTCACTCCCCATCCCAACCAGAGATGGCTCACTTCGGATC
GAGGGTTGACTACATCTCATCATCTCACGAATCTGCTGTAATATAAGACAACAGCTTTTA
AATGTGTATATAACCCAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138962 unedited
NAAGTCGACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCTCGCCG
CTGCCCCGGCTCCGCCGCTCGCATAGAGATTCGGAGGAGCCCGGGCGGGGGGGAGGAGGA
GGGGGAGGAGGGAGCGGAGATCTCGGGGCTCGGAGCCGGCCGCCGCTCCGCTCCGATCGC
TGTGGGGCTTGGTTTTTTGGGGGTGGGGGGGCGGGGGGGCTCATATATGGAGGCAAATGG
GAGCCAAGGCACCTCGGGCAGCGCCAACGACTCCCAGCACGACCCCGGTAAAATGTTTAT
CGGTGGACTGAGCTGGCAGACCTCACCAGATAGCCTTAGAGACTATTTTAGCAAATTTGG
AGAAATTAGAGAATGTATGGTCATGAGAGATCCCACTACGAAACGCTCCAGAGGCTTCGG
TTTCGTCACGTTCGCAGACCCAGCAAGTGTAGATAAAGTATTACGTCAGCCCCACCATGA
GTTAGATTCCAAGACGATTGACCCCAAAGTTGCATTTCCTCGTCGAGCGCAACCCAAGAT
GGTCACGAGAACAAAGAATATATTTGTAGGCGGGTTATCTGCGAACACAGTAGTGGAAGA
TGTAAAGCAATATTTCGAGCAGTTTGGGCAGGTGGAAGATGCCATGCTGATGTTTGATAA
ACTACCAACAGGCACAGAGGGTTTGGCTTTGTCACTTTTGAGAATGAAGATGCTGTGGAG
AAAGTCTGTGAGATTCATTTCCATGAAATCAAATATAAAATGGTAGATTGCTAGAAAGCT
CACCCGAAAGGAGTCATGTTCCCACCTGGGACCAGAGGCCGGCCCCGGGACTGCCTTAAC
ACATGGACGCTTCATGCTTGCATGGGGTGCTGGGATATCCAACCTC

Restriction Sites: Please inquire

ACCN: NM_138962

Insert Size: 1400 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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_138962.2.

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_138962.2, NP_620412.1

RefSeq Size:	1581 bp
RefSeq ORF:	987 bp
Locus ID:	124540
UniProt ID:	Q96DH6
Cytogenetics:	17q22
Gene Summary:	This gene encodes an RNA-binding protein that is a member of the Musashi protein family. The encoded protein is transcriptional regulator that targets genes involved in development and cell cycle regulation. Mutations in this gene are associated with poor prognosis in certain types of cancers. This gene has also been shown to be rearranged in certain cancer cells. [provided by RefSeq, Apr 2016] Transcript Variant: This variant (1) represents the shorter transcript, and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.