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Product datasheet for SC210426

MRI (C7orf49) (NM_024033) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	MRI (C7orf49) (NM_024033) Human 3' UTR Clone
Symbol:	MRI
Synonyms:	C7orf49; MRI; MRI-2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_024033
Insert Size:	856 bp
Insert Sequence:	>SC210426 3'UTR clone of NM_024033 The sequence shown below is from the reference sequence of NM_024033. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AAATACGTCCGGGAGATCTTTTTCAGCTAGGCATAAACTGTGCACTGAACTGTCTGCCGAGAGCAGCT GGAGGACAGCTGAGCTTCCACTGGTGCTGCTGGGCCGCCCGCCTGTGGGAATGGGGCTCTCTGTGCTCC TACCTTTGTGCCTTCTTGGGCCTGGCAGATTCACCTCAGGCCAGAAGCCCCTGGACACTCCGGGCCTTG GGGCTGCCGTTCTGAGTGTGCGGAAGGCAGGACTCAAAATGAGATCCCATTTGACTCCCTCTGTATGTA CTGTGCCCTCTCCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGTTCCA GGGAAAATGATGTCATGTGGTGGTCCAACTTACTGGAACCAAAGAGACAGTACTTTGCAAAGAAAAGGA TCACTGCCAGGTGCACTGGAATTGCTACAGTTTAGTCCGCATGATCTCTCCTGAAGGAGGAAGCCTGTT TCAAAAATAGTTTCCATCATGAGTCTATCAATGAGCTCCCACCTCTCCAGCCAGCCTAGAAAGCAAACG AGCTGCCCACAGTTCTCTGCCCTGTCTGGGAGGTTGAGGCCACAGTGTATAGACTGGTAAGCCAGACAG GCCTCCTCCCGCAAGCTGCTACCTTGCTTTCACCTGTACCTTGGTCCCCGGGCAGCTAGCTATAAAGCA AGAGGGACAGGAGCCCAGAAGAGACACTGAGGACAAGAGATCACACCAGAGTACATGTCTCTGCCTCTG TTTTCAGTGTGGCTTTGGACAGGAATATATGAATAAATCACTGCCATACAGGTTTTCCAATACACAAGT GCTAGAAAATACACACAATTCCCCAATG ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_024033.4
Summary:	Isoform 1: Cell-cycle-specific inhibitor of classical non-homologous end joining (NHEJ) of DNA double-strand break (DSB) repair during the S and G2 phases (PubMed:28959974). Acts as a regulator of DNA repair pathway choice by specifically inhibiting classical NHEJ during the S and G2 phases, thereby promoting error-free repair by homologous recombination during cell cycle phases when sister chromatids are present (PubMed:28959974). Preferentially protects single-stranded overhangs at break sites by inhibiting classical NHEJ, thereby creating a local environment that favors homologous recombination (PubMed:28959974). Acts via interaction with XRCC5/Ku80 and XRCC6/Ku70, interaction restricted during the S and G2 phases only (PubMed:28959974). Molecular mechanisms governing classical NHEJ inhibition via interaction with XRCC5/Ku80 and XRCC6/Ku70 are unknown (PubMed:28959974). May act as a regulator of proteasome (By similarity).[UniProtKB/Swiss-Prot Function]
Locus ID:	78996
MW:	32