

Product datasheet for **SC208323**

MHF2 (CENPX) (NM_144998) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	MHF2 (CENPX) (NM_144998) Human 3' UTR Clone
Symbol:	MHF2
Synonyms:	CENP-X; D9; FAAP10; MHF2; STRA13
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_144998
Insert Size:	532 bp
Insert Sequence:	<p>>SC208323 3'UTR clone of NM_144998</p> <p>The sequence shown below is from the reference sequence of NM_144998. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GTGCTTCCGAGCTGCTCCTGGACTTCTAGGGATCTCAGCCGTGGCTGAGGCCACCCCGAGAGGAGCCC
CTGGTCCACAGAAGCAGGCCTTGTGTTTCCAGCGGCCTCTGATAAGAGGCAGGGAAGGACCTGAAGGAT
TTGGAGTTGATTCAAACAAGATCTCTGGGAGTCTCCAGCCTGTGCAGAAGGGGCAGGACTGCAGTGCAC
TGCGGGCCTTGGAGTGTCCAGTGGGACACTGGTGTGGGAAGGGGCAGCACCTGGGGAGTCCCTGCCTC
TCCTCCCTGGGACAATAGTGTGCATGCCACCCGGGGTCTACAGGCAGGTGCTGGGAAAGGCCTGGCCA
GCAGGTAGCCTGTGTGTTTGACAAACAGCAGCTGGCAGCGCTGCCTCCTGCCACATTCTGCCACCCG
ACATCAAAGCTGGCGTGTGACCTTTCAGCCATGCGATATTCCCTTGAAGATGCTTCCCAGGCTAT
AAATTTGTTCTCACAAGCAACATCAATAAATCAAACTGTCTCTCCA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites:	SgfI-MluI
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).


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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:	<u>NM_144998.4</u>
Summary:	DNA-binding component of the Fanconi anemia (FA) core complex. Required for the normal activation of the FA pathway, leading to monoubiquitination of the FANCI-FANCD2 complex in response to DNA damage, cellular resistance to DNA cross-linking drugs, and prevention of chromosomal breakage (PubMed:20347428, PubMed:20347429). In complex with CENPS (MHF heterodimer), crucial cofactor for FANCM in both binding and ATP-dependent remodeling of DNA. Stabilizes FANCM. In complex with CENPS and FANCM (but not other FANC proteins), rapidly recruited to blocked forks and promotes gene conversion at blocked replication forks (PubMed:20347428, PubMed:20347429). In complex with CENPS, CENPT and CENPW (CENP-T-W-S-X heterotetramer), involved in the formation of a functional kinetochore outer plate, which is essential for kinetochore-microtubule attachment and faithful mitotic progression (PubMed:19620631). As a component of MHF and CENP-T-W-S-X complexes, binds DNA and bends it to form a nucleosome-like structure (PubMed:20347428, PubMed:20347429). DNA-binding function is fulfilled in the presence of CENPS, with the following preference for DNA substates: Holliday junction > double-stranded > splay arm > single-stranded. Does not bind DNA on its own (PubMed:20347429).[UniProtKB/Swiss-Prot Function]
Locus ID:	201254
MW:	19