

Product datasheet for **SC321350**

MIS12 (NM_024039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIS12 (NM_024039) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIS12
Synonyms:	2510025F08Rik; hMis12; KNTC2AP; MTW1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024039.1
 CAACCGCGCCGTCTGTCCTGGCAAGCCAGCGCGGTTTAAAGGAGGTGGCGGGAAGCCT
 GTGTGTGCTTCAAATCGTCACCCATCATGGTCGCTCCGGTTTTTACGACTGAAAAAACA
 TAGCAAAATAAGCCAAGATGTCTGTGGATCCAATGACCTACGAGGCCAGTTCTTTGGCT
 TCACGCCACAAACGTGCATGCTTCGGATCTACATTGCATTTCAAGACTACCTATTTGAAG
 TGATGCAGGCCGTTGAACAGGTTATTCTGAAGAAGCTGGATGGCATCCCAGACTGTGACA
 TTAGCCCAGTGCAGATTGCAAAATGCACAGAGAAGTTTCTTTGCTTCATGAAAGGACATT
 TTGATAACCTTTTTAGCAAAATGGAGCAACTGTTTTTGACGCTGATTTTACGTATTCCCT
 CAAACATCTTGCTTCTGAAAGATAAATGTAAGGAGACACCTTATAGTGAGGAAGATTTTC
 AGCATCTCCAGAAAGAAATTGAACAGTTACAGGAGAAGTACAAGACTGAATTATGTACTA
 AGCAGGCCCTTCTTGAGAATTAGAAGAGCAAAAAATTGTTGAGGCCAACTCAAACAGA
 CGTTGACTTTCTTTGATGAGCTTCATAATGTTGGCAGAGATCATGGGACTAGTGATTTTA
 GGGAGAGTTTAGTATCCCTGGTTCAGAACTCCAGAAACTACAGAACATTAGAGACAATG
 TGGAAAAGGAATCGAAACGACTGAAAAATATCTTAATTGCTCAGTAGTCAAAAGGAGGAGC
 CTGTCAAAAAGTAGAATCATAAGGACTGTTCAAACCATAAGGACTGTTCAAATCATACCA
 GTGACTGTTCAAACCAACCATACTTTTTATTAGATTTGCTTTGTCAACTCTTTCTGTAT
 TCTGTGTTTTCTCTTTTTTGGTCCACTTTGCTGAGGTATGAAGTGTACTACTTTGAACT
 AGGCTGAAGCATCTGAGTCTTCTAATAAGTGGGAAGGGATCCAACAAAGAAGCCATGACC
 AGTTAAAGATATTTGCAGAGTTACACCTTGGTCATAAGTCCTTTGTGACCTTGATTATTT
 TGGCTTACTCTTTGGATGAGACCAGACAAGAAAAGGATTAACCGGGTGGCTCCTTTAATA
 TTATTATTATTGTTTTGAGACAAGGTCCCTTTCTGTCAACCCAGGTTAGAGTAGATTTCA
 GTGGCACAACTCTGGCTCACTGCAACCTCTGTGCTCCTGGGCTCAAGTGATCCTCCTGCCT
 CAGCCTCCCAAGTAGCTAGGACCACAGGTGCGTGTCAACCATGCTTGGCTAATTTTTTTGC
 AGAAACGAGGCCCTCACTATATTGTCCAGGCTGAGTGGCTCTTTTATTAACCAAGTCATTAC
 ACTGCGGAACAGCCAACATAGAGTACTTGCTCTCGCCCTGTGAATTTTCTTTCATGAGGG
 AGTCAATATGTAGTGAAAGAAGCATGTAGCAAAAAAGACAACCTTGATCTTTAATAAAA
 AAGAAGTTGGTTATTTCCAAAAATAATCCCTGACAAAAAACCTGGTGATGTTAAGCAA
 TTGACTGTCTTAGAGTCCAGCAGAAGACCTTAGACAAAAAAGCAGAACCCACTGGAGTA
 GAAAAGGAAGCATGTAGCATATACTCAGTAGTGAATTTAATTTTACTGACTGTTAGGTA
 TCTATGCCAATTTGTTTTCATACTTCAGTTGGTTTTGGAATCTGCCTTATACCTAATATT
 TAATTATTTATTCACACTCATAAGCATCAAATATTTAATGCCCTCAGTGGGAAAATTGTG
 TTTAAACTCAATGAATCTAATATTTCTTATGTGCTTAGTCCCTGTAAAATGTTAGGTC
 ACCCAAGGAAAGGGGAGAAATAGCAATGTTGTTCTTAAGGTATTGCTTGCCTCCATGT
 CTTCTAAAGAGCAGAACTTGGAGTTTCTCTTTATGTAGAGAAGAAGTAACTTAGGGTG
 TATTTGCAATGAAATATTCATAGATATTGAAAGCTTGTTTTACATGAAATATGTTTATT
 ATCAAGAATTCCTTTTTCCAATTCTGTACATTAAATATATGTGTTTTAAAGGAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_024039

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:	<u>NM_024039.1, NP_076944.1</u>
RefSeq Size:	2509 bp
RefSeq ORF:	618 bp
Locus ID:	79003
UniProt ID:	<u>Q9H081</u>
Cytogenetics:	17p13.2
Gene Summary:	Part of the MIS12 complex which is required for normal chromosome alignment and segregation and for kinetochore formation during mitosis (PubMed:12515822, PubMed:15502821, PubMed:16585270). Essential for proper kinetochore microtubule attachments (PubMed:23891108).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-5 encode the same protein.