

Product datasheet for **RN206050**

Mis12 (NM_001047972) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mis12 (NM_001047972) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mis12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN206050 representing NM_001047972 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCTGTGGATCCGATGGCCTATGAGGCCAGTTCTTTGGCTTCACCCACAGACTTGCTTGCTGAGGA
TCTACATAGCATTTCAAGACCACCTCTTTGAAGTGATGCAGGCTGTTGAACAGGTTATCTTAAAGAAGCT
GGAGGGCATTCCAGACTGTGAGATTAGCTCTATCCAGACTCGTAAATGCACAGAGAAGTTTCTTTGCTTC
ATGAAAGGACGTTTTGATAACCTTTTGGTAAAATGGAGCAGCTGATTTTACAATCGATTTTGCAAATTC
CTCCAAACATCCTGCTTCCTGAAGATAAGTGTCAGGAGACGAATCCTTTCAGTGAAGAAAAATCCAGCT
TCTCAAACAGGAAATCAAGAGTTACAGGAGAAATATAAGGTTGAATTATGCACTGAGCAGGCCCTTCTT
GCAGAATTAGAGGAGCAAAAACTGTTAAAGCCAACTCAGAGAGACGTTGACTTTCTTTGATGAGCTTG
AAAACATCGGCAGGTATCAAGGAAGTAGTAACCTTAGGGAGAGTTTGGTGTCTCTGGTCCAGAACTGCAG
AAAACCTCAGGATATTAGAGATAATGTAGAAAAAGAGGGCAAAAGGCTGGAAACACAAT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001047972
Insert Size:	621 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).


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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_001047972.1, NP_001041437.1</u>
RefSeq Size:	667 bp
RefSeq ORF:	621 bp
Locus ID:	501706
UniProt ID:	<u>Q7TQ72</u>
Cytogenetics:	10q24
Gene Summary:	Part of the MIS12 complex which is required for normal chromosome alignment and segregation and for kinetochore formation during mitosis. Essential for proper kinetochore microtubule attachments.[UniProtKB/Swiss-Prot Function]