

Product datasheet for **MG211410**

Mis18bp1 (NM_172578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mis18bp1 (NM_172578) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mis18bp1
Synonyms:	6720403H11; C79407; Knl2; mKIAA1903
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG211410 representing NM_172578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTGTAACACCTTTGAAGCATTTCAGGAATTCATTTGTCTTCTGGAACATTGCAAAGAAGAAATATGC
 CTCTAGATGCAGTCTTTATTGACAGCATCCCTTACGGCACACTCACTCCTTTGAAAGATTTGGTAAAATA
 TCAGAAGTCTCTCTAAAAGTTAATGGTCATAAAAAGAATCAGTTATTAGAAAATAAGAACTTCTAACAAT
 AAAGATCTATTTCAATCCACCATGTTATCAGAGGCTACCTTCCAAACAGCTCTCTTGATATCAGTGTTA
 TAAAGCCAGCATGGATAGATTAAGAAATGAAATGATTTATGAATCACCAGGTAAAATCTTTCAAAGAAT
 GAAAGCAAAGTACAGCGTGACAAACAAGAACAACACTGACAAGGAGCAGTAGCATGTTGGGATCACCACAG
 GGTGAACACACCAAAGACTTTCTCCTAACACGGATAAGAAAGCTCAGTTGCAACAAACCTATATCTGTG
 AGGAAAAACAACGTCGGTCCAATCCAATGACCCTTCATTGGGAGATCCTCCAATCTGAACCAAGAACA
 AAAAAATGTTTCAGCTTCGTGCATTTCAAAGAAGGCATTAACCTAGAGCCAGTTTGGCGGACAAGTTCTT
 CATTCAAAGAGAGTCTGTTAGGATCACTGTGTCCAAAAAGAACACATTTGTTTTGGGAGGCATTGATT
 GTACTTATGAAAAGTTTAAAATACTGATGTTAACACCATTAGTTCTCTTTGTGTTCTATTAAGAATCA
 TAGCCAATCTATTTCTGATAATGATGTGACAACAGAAAGGACTGCAAAAAGAGGATATTACAGAACCA
 AATGAAGAGATGATGTCCAGAAGAACTATTTCTCAAGTCCCAATAAAGAATACATCTAAAATTAACGTT
 CAAGTCCAAGACCTAATTTAACACTATCTGGCCGGTCTCAAAGAAAAATGTACAAAGCTTGAAGCTTTGT
 AAAAGAAGTAAAAAATATCAGGCAGTCCACCTACAGGAATGGATGATTAAGTCATCAATAATAACT
 GCTATATGTGTAGAAGGAAAGCTGGTAGATAGACTGATGTTTATTGGCATAGCAATGTAATTATAGAGC
 GGATTAACACAATGAACCTTAGGACCTTATCAGGCAACATTTATATCTTAAAAGGATGATGATCAGGT
 TCCATGAAAGAAGCAGGATATCCCTGTTATCTCACAAGAAAAATTTATGTTTTGGATTTCCCAACAACCTGG
 AAGGAACACATTGATAAATTTCTAGAACAATTAAGGGCTGAAAAAAGAACAAGACCAGACAGGAAACAG
 CAAGAGTCCAAGAAAAACAAAAATCAAAAAAAAAAGATGCAGAAGATAAAGAACTTATGCTCCTCAAAA
 GGCCAGCATCACGTATGACCTTAATGATAATAGCTTAGAGAGAAGTGAAGTACCCACTGATCCCTTGAAC
 TCACTGGAACAGCCTACCTCCGGCAAAGAAAGAAGACACCCGCTTCTCAGTCAGAAGAGAGCTTATGTTT
 TAATAACACCCTTAGAAAACAAAAAGTTGATAGAGCAAAGATGTATAGACTACAGTCTCTCTATTGAAGG
 AATATCGGACTTTTTCAAAGCAAAGCATCAAGAAGAAAGTGAAGTCAAGATACATGGAACCTCAAGTTCT
 ACCAGTAAGTCTCAAGAGACCTTTGAACATAGAGTGGGATTTGAAGGCAATACCAAGGAGGACTGCAATG
 AATGTGACATAATCACTGCCAGACATATTCAGATACCTTGCCCGAAAAGTAAACAATGCTCACCAATGA
 TTTTATGAAAAAGAACAAGTTGCCCTCAAACTGCAGAAAAGTAAAATCAAATAGGTGTATCACAGTAT
 TGCCGGTCTCATCACATTTGTCAAGTGAAGAGAATGAAGTAGAAATAAAAGTGAAGACCAGAGCAAGAA
 ATACAAAAGAAAGGCTGAATCGGGAGAGAGAAAACACAAACCACATCACAAAAGATATCCTCCTCATTTT
 AGAAAAGTGAAGGTGAGAGAGCTTGTATATCACACCAAAGAGACCTCGATCTTGTATATCACACCAAAG
 AGACCTCGATCTTCTGCTAAAGAGTACATTACAAATCTGCTGTTAGCAAGGACTTTCTCACTGAAGGAA
 AGGCATCTGATAGAACTAGCAGACAGCTGTTAGACCATCTACCTGGTTAACTGATGATGAAGAATGGGAG
 TGAGCAAGAGTTACAGAAGCTACATTGTGCTTTTACATCTTTCAAAGCACAAAACCTGGCTTTTGGTCA
 GATGTGGCTATGGCAGTAGGTTCTGAACTGCTGATGATGCCAGAAGAAATACACAGAAGAAACCCCAAG
 GCCAAGGATCCCAGAAACATGGCTCTAAGAAAAAGCAAGCCAACAAGGTCCAAAATGGTGAGAAAGACAG
 TGCTGATGCCAAGACTATTAAGATAACTGCCAAAGTGGGAACTCTTAAAAGGAAACGACAAATGAGGGAT
 TGCTTAGAACATTTGGCAAAAGACAACCATGATGATTTTTTCACTGCAACACCCTTGCAAAAACAAAGAA
 TTCAGTTGCCAAGTTTTCAATACAGTCAAGATGATGATTTTCTGCTAGATATGGACAGGGATCCAGCATC
 TCCATCATCAATTATTACTTCACCATTGAGAAGCACTACTCCACAATGTCAGCATTTTCAGCCCCAGCATG
 CTAGCCGCTATAGAAAGGAATAATTGTGATAGATATGTTTACCAATGCAAAAAAATGCTAAAAAATATG
 GCAAGAGTAATGGTGGCCTTGTCTGGGCAACATTAGGAAAAAACAAGTAAAAGTATCTCTCATCTCC
 ACCACCAACACGAAAGCCCTGTTTAAACAAAGATTTAGGTAAAAACACTGATATTTCAAAGTATTTCAAT
 GATGATACAGAATCAGATGAAGAAGAGAAAGATTACTTTTTCAATTCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211410 representing NM_172578
 Red=Cloning site Green=Tags(s)

```

MIVTPLKHSGIHLSSGTLQRRNMPLDAVFIDSIPSGTLTPLKDLVKYQKSSLKVNHGKKNQLEIRTSNN
KDLFQSTMLSEATLPNSSLDISVIKPSMDRLRNEMIEYSPGKIFQRMKAKVQRDKQEQLTRSSSMLGSPQ
GEHTKDFPPNTDKKAQLQQTYYICEEKQTSVQSNDFSLGDPPIILNQEQKNVSASCISKKALTRAQFGGQVL
HSKESPVRTITVSKKNTFVLGGIDCTYEKFENTDVNTISSLCVPIKNHSQSITSDNDVTTERTAKEDITEP
NEEMMSRRTILQDPIKNTSKIKRSSPRNLTLSGRSQRKCTKLETVVKEVKKYQAVHLQEWMIKVINNNT
AICVEGKLVDMTDVYVHSNVIIERIKHNELRRTLSGNIYILKGLIDSVSMKEAGYPCYLTRKFMFGFPHNW
KEHIDKFLEQLRAEKKNTRQETARVQEKQKSKKDAEDKETYVLQKASITYDLNDSLERTEVPTDPLN
SLEQPTSGKERRHPLLSQKRAYVLIPLRNKLEIQRCDYSLSEIGISDFKAKHQEESDSIHTGTPSS
TSKSQETFEHRVGFEGNTKEDCNECDIITARHIQIPCPKSKQMLTDFMKKNKLPKSLQKTENQIGVSQY
CRSSSHLSSEENEVEIKSRTRARNTKERLNRERENTNHIKIDILLISETEGERACYITPKRPRSCYITPK
RPRSSAKESHYKSAVSKDFLTEGKASDRTSRQLLDHLPGLTDDEEWSEQLQKLHCAFTSLPKHKPGFWS
DVAMAVGSRTADECQKKYTEEPQGGSRKHGSKKKQANKVQNGEKDSADAKTIKITAQVGTLRKRQMRD
CLEHLAKDNHDDFFTATPLQKQRIQLPSFQYSQDDDFLLDMDRDPASPSSIITSPLRSTTPQCQHFSPSM
LAAIERNNCDRYVYQMQNAKKYGKSNGLVWGNIRKKTVKTDLSPPPTRKALFNKDLGKNTDISKYFI
DDTESDEEEKDYFNSD
  
```

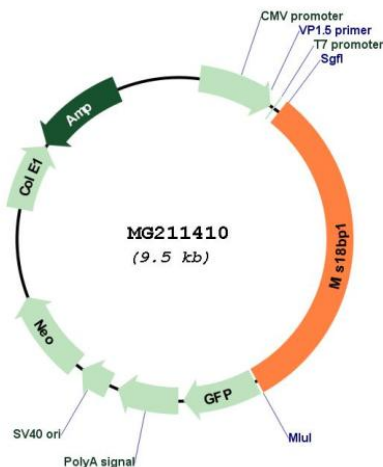
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172578

ORF Size: 2994 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_172578.2](#), [NP_766166.2](#)

RefSeq Size: 4038 bp

RefSeq ORF: 2997 bp

Locus ID: 217653

UniProt ID: [Q80WQ8](#)

Cytogenetics: 12 C1

Gene Summary: Required for recruitment of CENPA to centromeres and normal chromosome segregation during mitosis.[UniProtKB/Swiss-Prot Function]