

## Product datasheet for **RR207442**

### **MIh1 (NM\_031053) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIh1 (NM_031053) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RR207442 representing NM\_031053  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCATTGTAGCAGGAGTTATTCGGCGCCTGGACGAGACGGTAGTGAATCGCATAGCGCGGGAGAAG  
 TTATCCAGCGGCCGCCAATGCTATCAAAGAGATGACTGAAAACCTGTTTAGATGCAAAATCTACAAATAT  
 TCAAGTGATTGTTAGAGAAGGAGCCTGAAGCTAATTCAGATCCAAGACAATGGCACTGGAATCAGGAAG  
 GAAGATTTGGATATTGTGTGTGAGAGGTTCACTACAAGTAAACTGCAGACCTTTGAGGATTTAGCTATGA  
 TTTCCACCTATGGGTTTCGCGGAGAGGCTTTGGCAAGCATAAGCCATGTGGCCCATGTCATTACAAC  
 CAAAACAGCTGATGGGAAATGTGCATACAGAGCAAGTTACTCAGATGGAAAGCTACAAGCCCTCTAAA  
 CCGTGTGCAGGCAACCAGGTTACCCTGATCACGGTGAAGACCTTTTTTACAACATAATCACAAGGAAGA  
 AAGCTTTAAAAATCCCAGTGAAGAGTACGGGAAGATTTTGAAGTTGTTGGCAGGTAACAACACAA  
 TTCAGGAATTAGTTTCTCAGTTAAAAACAAGGCGAGACAGTCTCTGATGTCAGAACACTACCCAATGCC  
 ACGACCGTAGACAACATTCGCTCCATCTTTGAAATGCTGTTAGTCGAGAAGTATCGAAGTTGGGTGTG  
 AGGATAAAACCCCTAGCTTTCAAATGAATGGCTATATCTCGAATGCAAACACTACTAGTGAAGAAGTGCAT  
 TTTCTACTCTTCATCAACCACCGGCTGGTGGAAATCGGCTGCCCTGAAGAAAGCCATAGAAGCTGTATAT  
 GCAGCATATTTACCCAAAAACACGCACCCATTCTGTACCTCATTTTTGAAATCAGTCCCGAGAAGCTGG  
 ATGTCAATGTGCACCCCAAGCATGAAGTTCACCTTTCCATGAGGAGAGTATTTGGAGCGTGTGCA  
 GCAGCAGATCGAGAGCAAGCTATTGGGCTCCAATTCATCCAGGATGTATTTACCCAGACCTTGCTTCCA  
 GGACTTGCTGGGCCCTCTGGGGAAGCCGTTAAATCCACGACAGGCATAGCTTCTCATCTACTAGTGGAA  
 GTGGCGACAAGGTTACGCTTACCAAATGGTCCGTACAGACTCTCGGGACCAGAAGCTCGATGCCCTTAT  
 GCAGCCTGTAAGCAGGCGTCTGCCAGCCAGCCCAAGGACCTGTCCCTGGGAACAGGACAGAGGGCTCT  
 CCTGAAAAGCCATGCAGAAGGATCAGGAGATATCTGAGCTCCCGGCCCCATGGAAGCAGCTGCTGACA  
 GTGCGAGTTTGGAGAGAGAATCAGTGATTGGGGCTTCGGAAGTGGTGGCACCCAGCGGCACCCCTCCAG  
 TCCAGGCAGCTCCAGAAAGAGACATCCGGAGGACTCCGATGTGGAATGATGGAAATGATCCCGGAAG  
 GAAATGACAGCTGCTTGCTACCCCGGAGGAGGATCATTAACTCACCAGTGTTTTGGTCTCCAGGAAG  
 AAATTAACGACCGGGTTCATGAGACTCTCCGGGAGATGCTCCGTAACCATACCTTTGTGGCTGTGTGAA  
 TCCTCAGTGGGCCTTGGCACAGCACCAGACCAAGCTCTACCTCCTCAACTACCAAGCTCAGTGAAGAA  
 CTCTTCTACCAGATACTCATTTACGATTTTGCCAACCTTCGGTGTCTCAGGTTACCGGAACCAGCACCCAC  
 TCTTTGACTTCGCCATGCTGGCCTTAGATAGTCCCTGAAAGTGGCTGGACAGAGGAAGATGGCCAAAGGA  
 AGGACTTGCAGAATACATTGTTGAGTTTTTGAAGAAGAAAGCCAAGATGCTTGCAGACTATTTCTCTGTG  
 GAAATTGATGAGGAAGGGAACCTGATTGGATTACCTCTCCTGATTGATAGCTATGTGCCGCTTTGGAGG  
 GACTGCCTATCTTCATTCTCGACTGGCCACTGAGGTGAAGTGGGATGAAGAGGAGTGTTCGAAAGTCT  
 CAGTAAAGAAATGTGCTGTGTTTTACTCCATTGGAAGCAATACATACTGGAGGAGTCAGCCCTCTCAGGC  
 CAGCAGAGTGACATGCCTGGCTCCCTTCAAAGCCCTGGAAGTGGACTGTGGAACACATTATCTATAAAG  
 CCTTCCGCTCACACCTTCTGCTCCGAAGCATTTCACAGAAGATGGCAATGTCTGCAGCTCGCCAACT  
 GCCAGATCTGTGCAAAGTCTTCGAACGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207442 representing NM\_031053  
 Red=Cloning site Green=Tags(s)

MSFVAGVIRRLDETVVNRIAAGEVIQRPANAIEKEMTENCLDAKSTNIQVIVREGGLKLIQIQDNGTGIRK  
 EDLDIVCERFTTSKLTQTFEDLAMISTYGRGEALASISHVAHVITTTKTADGKCAYRASYS DGKLQAPPK  
 PCAGNQGTLITVEDLFYNIITRKKALKNPSEEYKILEVVGRYSIHNSGISFSVKKQGETVSDVRTLPNA  
 TTVDNIRSIIFGNAVSRELIEVGCEDKTLAFKMNGYISNANYSVKCCIFLLFINHRLVESAAKKAIEAVY  
 AAYLPKNTHPFLYLILEISPNVDVNVHPTKHEVHFLHEESILERVQQHIESKLLGSNSSRMFTQTLLP  
 GLAGPSGEAVKSTTGIASSSTSGSGDKVHAYQMVRTDSRDQKLD AFMQPVSRRLP SQPQDPVPGNRTEGS  
 PEKAMQKDQEISELPAPMEAAADSASLERESVIGASEVVPQRHPSSPGSSRKRHPEDSDVEMMENDSRK  
 EMTAACYP RRRRIINLTSVLSLQEEINDRGHETLREMLRNHTFVGCVNPQWALAQHQTKLYLLNNTTKLSEE  
 LFYQILIIYDFANFGVLR LPEPAPLDFDFAMLALDSPESGWTEEDGPKEGLAEYIVEFLKKKAKMLADYFSV  
 EIDEEGNLIGLPLIDSYVPPLEGLPIFILRLATEVNWDEEECFESLSKECAVFYSIRKQYILEESALSG  
 QQSDMPGSPSPKPKWTV EHIYKAFRSHLLPPKHFTEDGNV LQLANLPDLCKVFERC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

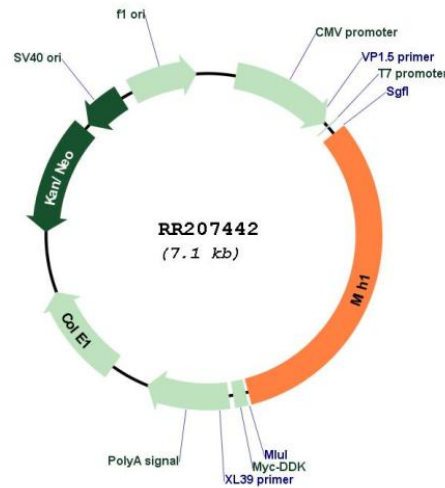
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_031053

**ORF Size:** 2271 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\\_031053.1](#), [NP\\_112315.1](#)

**RefSeq Size:** 2274 bp

**RefSeq ORF:** 2274 bp

**Locus ID:** 81685  
**UniProt ID:** [P97679](#)  
**Cytogenetics:** 8q32  
**MW:** 84.5 kDa  
**Gene Summary:** may be involved in DNA mismatch repair [RGD, Feb 2006]