

## Product datasheet for **RR212465**

### **MIlt10 (NM\_001012162) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIlt10 (NM_001012162) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIlt10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212465 representing NM\_001012162  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAGATGTGAGCTGTGCCCATAAAGATGGAGCTTTAAAAAGAACAGATAATGGGGTTGGGCTC  
 ATGTGGTTTGTGCCCTCTATATCCAGAGGTACAATTTGCCAATGTTTCTACAATGGAGCCAATCGTTTT  
 ACAGTCTGTCCCACATGATCGTTATAAATAGACTTGCTACATATGTGATGAGCAAGGACGAGAGACAAA  
 GCGGCCACTGGCGCTGCATGACATGCAATAAACATGGATGTCGACAGGCCTTCCATGTAACATGTGCTC  
 AGTTTGGCGGGTGTCTTGTGAAGAAGAAGGGAATGGCGCGACAACGTCCAGTACTGTGGCTACTGTAA  
 ATACCACTTTAGTAAGCTGAAAAAGAGCAAAACGGGGATCTAATAGGTCATATGATCAAAGTTAAGTGAT  
 TCTTCTCTCACTCTCAGGATAAACATCATGAGAAAGAGAAAAAATAAAGAAAAGGACAAACACA  
 AACCAAAACACAAGAAGCAACCCGAGCCATCACCCGCTTGGTTCCTTTTACTGTTACTACAGAAA  
 GACATATACAAGCACTAGCAACAACCTCCATATCTGGATCGTTGAAGTGCTTGAAGATACCGCAGCAAGA  
 TTTACAAATGCAATTTCCAGGAAGTGTCTGCCACACCTCTAGTGGAAAGATGTGTCAGAGGCAAGGT  
 CAGAGGGCAAAGGGAAGAAATCTTCAGCTCACAGCTCAGGTCAAAGGGGAAGGAAGCCTGGTGGTGAAG  
 AAATCCAGGAACAACGGTGTGAGCATCTAGCCCTTTCCACAAGGCAGTTTTCCAGGAATCCAGGCAGT  
 GTAAGTCATCTTCTGGAAGTTCAGTGCAGTCTCCCAGGATTTCTCAGCTTCACTGACTCGGACTGCG  
 GGAATGACAGTTACACTCACACGCGCCGCCACCGTCAACCAAGATGTACATAAAGGGGAGCCTGGCAG  
 CCAGGATGCAGGGGTGAACAGCTTTAGCTCTCTAGTTGGTACCCTGGGACCTCAGGTGCGACTTCACAG  
 CCGAAAAGCTTTGACAGCTCTCTGGGGAGTTGGCAGCTCCAGCCTTCTACAGCAGGGTATAAGCGGG  
 CTCAGACTTCTGGGTAGAAGAGGAGGAAGCCGTGAAGGAAAAGAAAACGGAAGGGAATAAACAAGCAA  
 GCATGGCCCTGGCCGACCCAAAGGAAACAAGAACCAAGAAAATGTTTCTCACCTCTCGGTTTCTCTGCT  
 TCAACGACATCATCCGTGGCATCGGCTGCGGGAGTGTGACAAGCTGTAGCCTTCAGAAGTCCCCACGC  
 TGCTCAGGAATGGAAGTATGAGAGTCTCAGCGTGGGCTCGTCCCCTGGCTCAGAAATTTCCATGCA  
 GTATCGACATGATGGAGCTTGTCCAACAACAGTATTTATAACAGCAATGATGTAGCCGTTTCTTCCCA  
 AACGTGGTGTCTGGCTCAGGATCGAGCACTCCCGTCTCCAGCTCTCATATACCTCAGCAGTCTGCTGGG  
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 GGCAACACCGCTCCTGGATCTTCTCTGAGTCAGGCACCGGCCATGTGTATGGCAGTAGATTAATCAG  
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 CCCGACGCTGGTTGGTGGGGCAGTCCCCCGAGGAAGCCTCTCTCAAGATCCCCTGTGAGCAACT  
 GCAGATTCGATATGATCAGCCAAGCAGCAGTGGTTTGAAGCCTGCCTCCAGTGGCAGTGAATTTGAG  
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 GACTGCCAAAAAAGAAGCTTTCAGTGTGTTGAAACGCACAGCTTTCAGTGCCTTTCCAGCAATAACGACA  
 AACCTAGTCCATCTCATCAGATACACACATACACAGCACAGACTGCTCCTACTACTGACTCTCTGAACA  
 GCAGTAAGAGCCCGCATATAGGAAACAGCTTTGTACCCGACAATCTCTCTCTGTATTAATCAGGACCT  
 GACTTCCAGTGGGCAAAGCACCAGCAGCTCTTCTGCTTTTCCACTCCCCGCTGCTGGCAGAGTCCA  
 GCCCAGCAGGGCTCTGGAGTTAGTGGGTTTACGACAGGTGAACGGGTGACAGTGGGGCCACTAGCTAGTG  
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 TAACCAGCTGGCAATCAATGGCATTGTAGGAGCGTTAAATGGTGTATTTCAGACGCCGTCACAATATCC  
 CAGAACCCTGCCCGCTCACCCACACCAGTGTGCCACCTAATGCAGCACATCCCATGCCAGCCGCCGCC  
 TGACTAACAGTGCCTCGGGCTGGGGTGTGTGCGACCAGCAGCAGATGTTCTCCAGCAGCAGCA  
 GTTCCAGCAGCTTTGAACTCCCAGCAGCTCACGCCGAGCAGCACCAGGCTTCTGTACCAGCTGATG  
 CAGCAGCAGCACCATCCCCCGAGCTTCCAGCAGATGCAGCTCCAGGGCCACGCAGATCCCCATCAACA  
 ACCTCCTGGCAGGCCCTCCGGCGCCCCACTCCACACGGGACCACCAACCCCTTCTCACCATCCACGG  
 GGACAGCACAAAGCCAGAAAGTCACAAGACTTAGTGATAAGACTGGGCCTGTAGCTCAAGAGAAAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212465 representing NM\_001012162  
 Red=Cloning site Green=Tags(s)

MKRCELCPHKDGALKRTDNGGWAHVVCALYIPEVQFANVSTMEPIVLQSVPHDRYNKTCYICDEQGRESK  
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 SSSHSQDKHHEKEKKYKEKDKHKPKHKKQPEPSPALVPSLTVTTEKTYTSTSNNSISGSLKLEDTAAR  
 FTNANFQEVSAHTSSGKDVSEARSEGKGGKSSAHSSGQRGRKPGGGRNP GTTVSASSPFPQGSFSGTPGS  
 VKSSSGSSVQSPQDFLSFTDSDLRNDSTHTQPPPSTKDVHKGEPGSQDAGVNSFSSLVGHPTSGATSQ  
 PKSFDSSPGELGSSSLPTAGYKRAQTSVVEEEAVKEKKRKGKQSKHGPRPKGNKNQENVSHLSVSSA  
 SPTSSVASAAGSVTSCSLQKSPTLLRNGSMQSLSVGSSPLGSEISMQRHDGACPTTSIYNSNDVAVSFP  
 NVVSGSGSSTPVSSSHIPQQSSGHLQQVGALSPSAASSVTPAAATTQANTAPGSSLSQAPAHVYGSRLNQ  
 NPSMAVLIAQSESSQTDQDLGDNTRSLVGRGSSPRGSLSPRSPVSNLQIRYDQPSSSGLESPPVAVSIE  
 QLLERQWSEGQQFLLEQGTSPDILGMLKSLHQLQVENRRLEEQIKNLAKKERLQLLNAQLSVPFPAITTT  
 NPSPSHQIHTYTAQTAPTDSLNSKSPHIGNSFVPDNLVPLNQDLTSSGQSTSSSSALSTPPPAGQSP  
 AQQGSGVSGVQVNGVTVGPLASGMQTVTSTIPAVSAVGGIIGALPGNQLAINGIVGALNGVIQTPVTIS  
 QNPAPLTHTSVPPNAAHPMPAAALTNSASGLGLLSDQQRQMFLQQQQFQQLLNSQQLTPEQHAFLYQLM  
 QQQHHPPELQMQPLPGPTQIPINNLLAGPPAPLHTATTNPFLT IHGDSTSQKVTRLSDKTGPVAQEKS

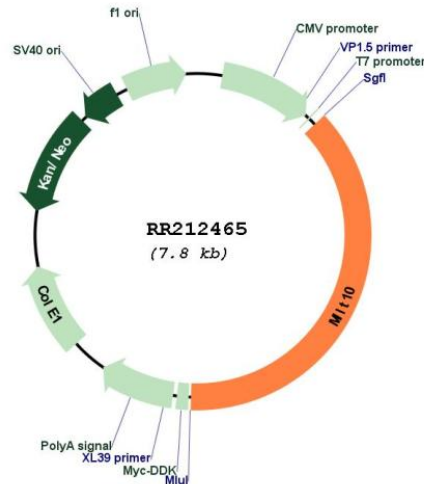
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001012162

**ORF Size:** 2937 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\\_001012162.1](#), [NP\\_001012162.1](#)

**RefSeq Size:** 4923 bp

**RefSeq ORF:** 2940 bp

**Locus ID:** 361285

**Cytogenetics:** 17q12.3

MW: 103.2 kDa