

## Product datasheet for RR202950

### Mtrex (NM\_001034093) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtrex (NM_001034093) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtrex
Synonyms:	RGD1305984; Skiv2l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202950 representing NM_001034093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACGCTTTTCGGGGATGAGCTTTTCAGCGTTTTTCGAGGATGATTCGACCACTGCAGCGGAAACCA  
AGAAAGACAAAGAAAAGGAGAAAGATAAATGGAAGGGCCACCGGGCCTGCAGACAAGGCCGGAAACG  
ACTGGATACCAGATTACAGTCAGAACCAGCCAGTAGTGGGAAAAACAAGAGAGATCTAGATGTTGAAGGC  
ACAGATGAACCTATTTTGGCAAGAAGCCAGGATAGAAGACTCAATTAATGAAGATTTAAGCTTGGCGG  
ACCTGATGCCAGAGTCAAGGTACAGTCGGTTGAAACAGTTGAAGGCTGTACACAGAGGTGCTCTTCC  
TGCAGATGAGGATTATATACCCTTAAGCCTCGAGTTGGGAAGGCAGCAAAGGAATACCCGTTTCATTCTT  
GATGCTTTCCAAAGAGAAGCCATTCAGTGTGTTGATAACAATCAGTCTGTGTTAGTATCTGCTCATACAT  
CAGCGGGGAAAACCGTGTGCGCTGAGTATGCTATTGCACTGGCTTTAAGGGAAAAACAGCGTGTAATATT  
TACCAGCCCAATAAAGGCTCTAAGTAATCAGAAATACCGTGAAATGTATGAAGAAATTTCAAGATGTTGGT  
CTGATGACTGGAGATGTTACTATTAATCCCACAGCATCTTGTCTGGTTATGACTACAGAGATTTTGAGAA  
GTATGCTGTACAGAGGCTCTGAAGTTATGCGAGAAGTTGCGTGGGTCATATTTGATGAAATTCATTACAT  
GAGAGATTCAGAGCGTGGTGTAGTATGGGAAGAACTATATTTTGTCTCCAGACAATGTTCACTATGTC  
TTTCTTTTCGGCTACTATTTCCCAATGCTCGACAGTTTGTGAGTGGATCTGCCACCTACATAAACAGCCCT  
GTCATGTAATTTACTGATTATCGACCTACTCCATTGCAACACTACATATTTCCAGCAGGGGGAGATGG  
CCTTACCTTGTGGTTGATGAAAATGGTGACTTCAGAGAAGATAATTTTAACTGCAATGCAAGTACTT  
CGGGATGCAGGTGATTTGGCCAAAGGAGACCAGAAGGGACGAAAGGAGGAACAAAAGGTCCATCAAATG  
TGTTCAAGATTGTGAAGATGATTATGGAAGAAATTTTCAACCTGTGATTATCTTCAGTTTTAGTAAGAA  
GGATTGTGAAGCATACGCCCTTCAAATGACTAACTAGACTTCAACACAGATGAAGAAAAGAAGATGGTT  
GAAGAAGTTTTCAATAATGCAATTGACTGTTTGTCTGATGAAGATAAAAAAGCTCCCTCAGGTTGAACATG  
TACTTCCACTTTTGAACGGGGATTGGTATTCACCATGGTGGTTTGTCTCTATTTTAAAGGAACTAT  
AGAGATTCTTTTCTGAAGATTGATAAAGGCCTTATTTGCCACAGAGACTTTTGTATGGGAATTAAC



[View online »](#)

ATGCCAGCTAGAACTGTTTTATTTACAAATGCCCGTAAATATGATGGGAAGGATTTAGATGGATTTCT  
 CAGGTGAGTACATCCAGATGTCTGGTCGTGACGGAAGGAGGGGATGGATGACAGAGGGATTGTGATTCT  
 TATGGTCGATGAAAAGATGAGCCCAACAATTGGAAAACAACCTGCTTAAGGGCTCAGCTGATCCTCTGAAT  
 AGTGCTTTCCATCAACGTACAACATGGTTTTGAACCTACTAAGAGTAGAAGAAATTAATCCCGAGTACA  
 TGCTTGAAAAATCCTTCTACCAGTTTCAGCATTATAGAGCAATCCAGGAGTTGTAGAAAAGGTAAGAA  
 CTCGGAAGAACAGTATAATAAAATAGTAATTCCAATGAAGAAAATGTGGTCATCTATTACAAGATTAGA  
 CAGCAACTTGCCAAGCTGGGAAAAGAGATTGAAGAATATATTCAAGCCAAAATCTGCTTACCCTTTT  
 TACAACCAGGCCGTTTGTAAAGGTGAAGAATGAAGGTGATGATTTCCGGCTGGGGAGTAGTGGTGAACCT  
 CTCAAAAAAGTCAAACGTCAAGCCCAATTTCTGGCGAACTGGATCCCTTGTATGTGGTGGAAGTGCTCCTG  
 CGCTGTAGCAAGGAAAGCCTGAAAACTCCGCCACAGAGGCAGCAAAGCCAGCAAAGCCGGATGAGAAGG  
 GGGAGATGCAGGTTGTTCCGGTTTTGGTGCATCTCCTGTCTGCCATCAGCACTGTAGACTCTACATTCC  
 AAAAGACCTCCGCCCGTGGACAACAGACAGAGTGTCTAAAATCCATACAGGAAGTTCAAAGCCGGTTT  
 CCCGATGGTGTCCGTTGTAGATCCTATCGATGATATGGGCATTCAAGATCAAGGACTGAAAAAGTCA  
 TTCAGAAAAGTAGAGGCTTTTGTAGCATCGAATGTACTCGCACCCACTTCACAATGATCCTAATCTGGAAC  
 TGTGTATACCCTTTGTGAAAAAAGGCACAGATTGCAATAGATATTAAGTCTGCAAAGAGAGAAGTGAAG  
 AAAGCAAGAACTGTTCTGCAAAATGGATGAACTCAAATGTCGTAAGCGTGTCTAAGAAGGCTGGGTTTTG  
 CTACATCTTCTGATGTCATAGAGATGAAAGGACGGGTGGCTTGTGAGATAAGCAGTGCTGACGAGCTCCT  
 TCTAACAGAGATGATGTTAATGGGCTCTTCAATGACCTTTCTTCCAGAACAGGCGACCGCACTGTAAGC  
 TGTTTTGTGTTTCAAGAGAATTCAGTGAGATGCCCAATTAACAGAGCAGTTAGCTGGACCACTCCGCAC  
 AAATGCAGGAATGTGCTAAAAGGATTGCAAAGGTTTCTGCAGAGGCAAACCTGGAGATTGATGAAGAAAC  
 TTACTTAAGCTCATTCAAGCCTCACCTGATGGATGTGGTGTACACCTGGGCAACTGGGGCCACATTTGCC  
 CACATCTGCAAAATGACAGATGTCTTTGAAGGCAGTATAATCCGTTGTATGAGGCCCTGGAAGAAGTGC  
 TTCGACAGATGTGTCAAGCAGCGAAAGCCATTGGAACACAGAGCTGGAGAACAAGTTTGTGGAAGGAAT  
 CACCAAAATCAAGAGGGATATTGTATTTGCTGCCAGCCTCTACTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202950 representing NM\_001034093  
 Red=Cloning site Green=Tags(s)

MADAFGDELFSVFEDDSTTAAGTKDKEKEKDKWKPPGADKAGKRLDTRLQSEPASSGKNKRDLDVEG  
 TDEPIFGKKPRIEDSINEDLSLADLMRQVQSVETVEGCTHEVALPADEDYIPLKPRVKGAAKEYPFIL  
 DAFQREAIQCVDNNSVLSAHTSAGKTVCAEYAIALALREKQRVIFTSPIKALSNQKYREMYEEFQDVG  
 LMTGDVITNPTASCLVMTTEILRSMLYRGSEVMREVAWVIFDEIHMYRDSERGVVWEETIILLPDNVHYV  
 FLSATIPNARQFAEWICHLHKQPCHVIYTDYRPTPLQHYIFPAGGDGLHLVVDENGDFREDNFNTAMQVL  
 RDAGDLAKGDQKGRKGGTKGPSNVFKIVKIMERNFQPVIIFFSFKKDCEAYALQMTKLDNFNTDEEKKMV  
 EEVFNNAIDCLSDKDLKLPQVEHVLPLLRKRGIGIHHGGLLPILKETIEILFSEGLIKALFATETFAMGIN  
 MPARTVLFNARKYDGDGFRWISSGEYIQMSGRAGRRGMDRGIIVLMVDEKMSPTIGKQLLKGSAADPLN  
 SAFHLTYNMVNLNLRVEEINPEYMLEKSFYQFQHYRAIPGVVEKVNSEEQYNKIIVPNEENVVIYKIR  
 QQLAKLKEIEEYIHKPKYCLPFLQPGRLVKVKNEGDDFGWGVVNFSSKSNVKNPNSGELDPLVYVEVLL  
 RCSKESLKNSTEAAPKAPDEKQEMQVVPVLVHLLSAISTVRLYIPKDLRPVDNRQSVLKSIEVQKRF  
 PDGVPLLDPIDDMGIQDQGLKKVIQKVEAFEHRMYSHPLHNDPNLETVYTLCEKKAQIAIDIKSAKRELK  
 KARTVLMDELKCRKRVLRRLGFATSSDVIEMKGRVACEISSADELLLTEMFNGLFNDLSSEQATALLS  
 CFVVFQENSSEMPKLTQLAGPLRQMQEAKRIAKVSAEAKLEIDEETYLSFKPHLMDVVYTWATGATFA  
 HICKMTDVFEGSIIRCRRLEELLRQMCQAAKAIGNTELENKFAEGITIKRDI VFAASLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001034093

**ORF Size:** 3126 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\\_001034093.1](#), [NP\\_001029265.1](#)

**RefSeq Size:** 3582 bp

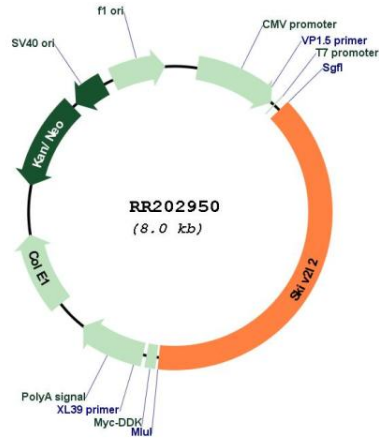
**RefSeq ORF:** 3129 bp

**Locus ID:** 365668

Cytogenetics: 2q14

MW: 117.9 kDa

**Product images:**



Circular map for RR202950