

Product datasheet for **RR201651**

Mastl (NM_001107369) Rat Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mastl (NM_001107369) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mastl |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR201651 representing NM_001107369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCCGCCTCGGGAAGTGAGGAGAATGAAGAAGGTGCGGCGACAGAGAAATGCGTGAATAGGATCC
 CAGTACCAAGACCACCCTCCATTGAAGAATTCACTATAGTGAAGCCATTAGCCGTGGCGCATTCCGGAA
 AGTGTACCTGGGACAGAAAGGCAGCAAGTTGTACGCGGTGAAGGTTGTCAAAAAAGCAGACATGATCAAT
 AAAAAATGACTCATCAGGTACAGGCTGAGAGAGATGCCCTGGCACTGAGCAAAAAGCCCTTTTGTGTGC
 ATCTGTATTACTCACTACAGTCAGCAAGCAACGTCTACTTGATAATGGAATATCTTATTGGTGGAGATGT
 CAAGTCTCTCCTACATATATATGGTTATTTTATGATGAAGAGATGGCTATAAAATATACTTCTGAAGTAGCA
 TTGGCTTTAGACTACCTGCACAGACATGGCATCATCCACAGGGATTTGAAACCGGACAATATGCTTATTT
 CCAATGAGGGTCATATTAAGCTGACAGATTTTGGCCTTTCCAAAGTTACTCTGAATAGAGACATCAATAT
 GATGGATATTCTACGACACCATCAATGTCTAAACCTAAGCAAGATTATTCGAGAACCCAGGACAAGTC
 TTATCTCTCATCAGTTCTTTGGGATTTTTCACACCAGTTGGAGAAAAAGATCAAGACTCTGCAAAATGTGT
 TTTTCAGCACCTAAGTCTGAAGCACAACCTTTCTCAAGGATCAATTTGTCCTATGTCATAGATCAGAAGGA
 GCCAATTTCTTATTCTAGCAAATACTAAAATCATGTTTTGAAACACTTGCATCCAATCCAGAAATACCT
 GTGAAATGTCTGACTTCTAATCTACTCCAGTGTAGGAAAAGACTGGGTACCTCAAGTACTAGTAGCCAGT
 CTCATACCTTCGTATCCAGTGTGGAGTCAGAAATGTACAGCAGTCCCAATGGGAGAAAGACTGCCAGAG
 TGCCAAGCCATCAAGTACAATGATGAGCTGGAGTGCCGGTGAATGCCGTATGCAAAATCTGAAGTGCC
 ATCGAGACAAAAACGGATTTGGAATTAGCACTTCTCCATTATGACAGCAGTAACATTCCTCCCACTG
 GAAGAAACTACATGACCCTCCCTAGAAAAGTCTTCTCCAGGAAAATCTCTTGGGAGGCAAGAGAACC
 TATAAATAATGAGACCATTGACCATTGACGAGGTCAAGTTTCTGTCAGTCCAATCATTGGGCTGTAATTTCT
 AGTGCTACATCTGAAGAACCTCTGTAAGAAACTGTAAAAGAAATTTCCACTTGTTGACTCCAGTC
 CTTGTGAGAAATATACAAAGTAAAAAAACTGTATAGAATATGAAGCCAATAAGGAAAAGACAGGCTG
 TTGTGCAAAATCAAGCTACAGGCTTACAGCCCAAGTCCAGAACCTGAAGCTATCAGTGTGCAAAAGTCAG
 CAACATGACTATGCTAATAAGGAGAACACTGTCACCTATTTAACTGACAGACGAACCCAGAGAAGTGC
 ATATAACCAACAATAGCAAAGAACCTCATGTCTGAGCTCGATGAAGACTGTGAGCTGAGCAGTAAAAAGA
 CTGCCTCCATTCTAATTCGTATGTTCTGATGAGGATAGAGCTCCTAAAAGTGTCTGTGACTCTGAT
 TCATCTTTTCTGGAGTGTCTATGATGAAAGTTCAGTGGAAATTCAGGCCTTAGAGCCAGATAAAAGCA
 TCAGAGACTACTCTTTTGAAGAACCAAACTACTGAAGATCTACTTATGTTACCAAAATGCCAAGAAAATTC
 CTTGCCAAAAGATGACTGGCATGCTTCTATCCAAGACAGTAACCAAAATGTTAGCTCCTCCTTCAAAGGCG
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 GTAATTCAGAACCATCCAAGTGAGCACAACCTTTTAGACACTATGGACATTTCTGTGACTACAGTGG
 TTCGTGTCCCATGGCTGTGACCCCTACTGAGAAAGGGAGGGCCTGTGTGTACATCAGACTCCGAGTCAG
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 GGATTCAGGAACCCCGGATTACCTGGCACCTGAGCTCCTACTGGGAGCCGCCATGGTCTGCAGTAGA
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 CAGCAAGTATTCCAGAATATTCTAAAAAGAGATATCCCGTGGCCAGAAGGTGAAGAAAAGCTATCTGATA
 AGTCTCAAAGTGCATGGATATGCTGTTAACCATTGATGACACAAAGAGAGCTGGGATGAAAGAAGTAA
 ACATCATCCTCTTTCAGTGAAGTGGACTGGGAGAATCTGCAGCATCAGACTATGCCTTTTCGTGCCCAA
 CCAGACAACGAAACAGATACATCCTACTTTGAAGCCAGGAACAATGCTCAGCATCTGACCATATCTGGGT
 TCAGTCTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201651 representing NM_001107369
 Red=Cloning site Green=Tags(s)

MESASGSEENEEGAATEKCVNRIPVPRPPSIEEFTIVKPISRGAFGKVYLGQKGSKLYAVKVVKADMIN
 KNMTHQVQAERDALALSKSPFVVHLYYSLQSASNVYLIMEYLIGGDVKSLLHIYGYFDEEMAIKYTSEVA
 LALDYLHRHGIHRDLKPDNMLISNEGHIKLTDFGLSKVTLNRDINMDILTTSPMSKPKQDYSRTPGQV
 LSLISSLGFFTPVGEKDQSANVFSAPKSEAQLSQGSICPMSIDQKEPISYSSKLLKSCFETLASNPEIP
 VKCLTSNLLQCRKRLGTSSTSSQSHTFVSSVESECHSSPKWEKDCQSAKPSSTMMSWSAGEMPYAKSVSA
 IETKTDLELALSPIHSSNIPPTGRNYMTLPRKCFREISWEAREPDINNETMTIDEVSFCQSNHWAVNS
 SATSEEHLCKRNCKRNFHLVDSSPCQEIIQSKKNCIEYEANKEKTGCCANQATGLTAQVQNLKLSVCKSQ
 QHDYANKENTVTYLTDRTPEELHIPTIAKNLMSELDEDECELSSKKDCLHSNSVCSDEDRAPKTVCVDS
 SSFPGVSMMESSLEIQALEPDKSIRDYSFEENPTEDLLMLPKCQENSLPKDDWHASIQDSNQMLAPPSKA
 PKTFASKTNVVAFRSFSHINASSNSEPSKVSTTSLDTMDISCDYSGSCPMVTPTEKGRACVSHQTPSQ
 VKLGTSYRTPKSVRRGPPVDDGRILGTPDYLAPELLLGAAGPAVDWWALGVCLFEFLTGIPPFNDETP
 QQVFQNILKRDIPWPEGEEKLSDKSQSAMDMLTIDDTKRAGMKELKHHPLFSEVDWENLQHQTMPFVPQ
 PDNETDTSYFEARNNAQHLTISGFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

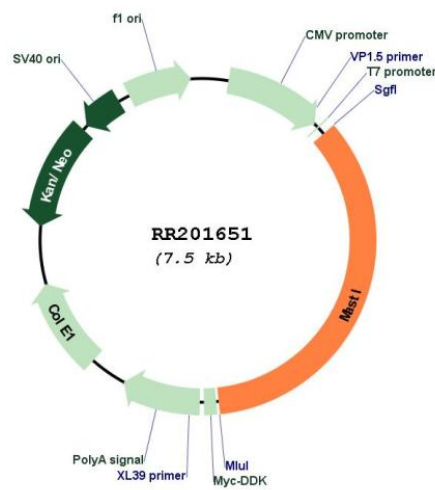
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001107369 |
| ORF Size: | 2598 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: | <ol style="list-style-type: none">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_001107369.1 , NP_001100839.1 |
| RefSeq Size: | 2989 bp |
| RefSeq ORF: | 2601 bp |
| Locus ID: | 307169 |
| Cytogenetics: | 17q12.3 |
| MW: | 96.2 kDa |