

## Product datasheet for MR223534

### Mga (NM\_001164274) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mga (NM\_001164274) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mga  
**Synonyms:** AV312082; C80739; C130042M01Rik; D030062C11Rik; Mad5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR223534 representing NM\_001164274  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAAGAGAAACAGCAAATCATATTGGCCAATCAAGATGGAGGGACAGTGACAGGAGGAGCACCTACCT  
TCTTTGTCATCCTAAAGCAGCCAGGAAATGGCAAACTGATCAAGGAATTTAGTTACTAATCGAGATGC  
CCGTGCTTTGTTGAGTAGGGAGTCATCACCAGGAAAATCTAAAGAGAAAATTTGCCTTCCGGCTGATTGT  
ACTGTGGGAAAAATCACGGTTACCTTGATAACAATAGTATGTGGAATGAGTTCCATAATCGAAGCACAG  
AGATGATTCTGACCAAACAGGGAAGACGCATGTTTCCTTATTGTGATATTGGATAACAGGCTTAGATTC  
AAATTTAAAGTATATCCTTGTAATGGACATATCTCCTGTGGATAGTCATCGGTATAAGTGGAAATGGTCGT  
TGGTGGGAACCCAGTGGGAAGGCTGAACCCCATATTTGGGGAGAGTTTTTCATTCATCCAGAATCTCCTT  
CTACAGGTCATTATTGGATGCATCAACCAGTGTCTTTCTATAAACTCAAACCTACTAACAATACACTGGA  
CCAGGAAGGACATATTATCTTGCACCTATGCATCGTTATCTGCCAAGGCTTCATTTGGTGCCAGCAGAA  
AAGGCTACAGAAGTGATACAGTTAAATGGCCCCGGTGTTCATACCTTTACTTTCCCCAGACTGAATTC  
TTGCAGTAACAGCTTATCAGAACATTACAGATTACTCAGTTGAAAATAGATTACAATCCTTTGGCAAGG  
CTTTCCGGATGATGGGTTGAGCAGTAAGCCTCAGAGAGAAGGAAAACAGAGGAATAGCTCCGATCAAGAA  
GGGAATAGTGTCTAGTTCTCCTGCTCATCGTGTTCGTTACAGAAAGTGAAGGGTCAGAGATACATT  
CAGGTGATTTTGCCTGTGTTAAGGGGTGATGAAGCATCAAGCTTAAGTTAGAGAAGGCTCCCATATA  
TGTAACAAGACTTTCTGGATTTATGAATACTGATTCGACACATGAAGTTCTCAGTTGAAACATGAG  
ATTTCTGAAAGTCGTATTGTGAACAGTTTTGAAGATGATCCAGATTTCTCACCATCAAACCCGAATG  
GAACTTTAATGTCGTCATTAAGAAGAGCCTCTAGATGATTATGATTATGAACTGGTGAATGCCAGA  
AGGATAACAGTGAACAAGAAGAGACAGATGAGGAAACGGATGTATACTCAAACAGCGATGACGATCCT  
ATACTAGAGAAAACAACTAAAGAGGCACAATAAAGTTGATAATTTAGAAGCTGACCATCCATCTTATAAT  
GGCTACCAAATAGCCAGGTGTTGCTAAAGCTAAAATGTTTAAATTAGATGCTGGGAAAATGCCAGTAGT  
TTACTTGGAGCCCTGTGCTGTCACGAAAAGCACAGTGAATAATTTCTGAATTGCCTGATAATATGCTCTCC  
ACTTCTCGAAAAGATAAATCTATGTTAGCAGAATTAGAATATTTGCCTGCGTATATTGAAAATTTCTGATG



[View online »](#)

GGACTGACTTTTGCTTAAGCAAGGATTCAGAAAATAGTCTCAGAAAACATTCACCAGATCTCAGAATTGT  
 ACAAAAATATACTTTACTTAAAGAGCCTAATTGGAAAATACCCGGACATACTTGACAACAGTAGCACGGAA  
 AGAATACATGACAGTTCCAAAGGATCAACTGCAGAGTCATTTTCAGGAAAAGAGGACTTAGGCAAAAAGC  
 GAACAACAATGCTTAAAAATGGCAATACCATCAAAGACTGTGACTGCTAGTCATAGTGCCTCTCAAATAC  
 TCCTGGGAAAAGAGGAAGACCGAGAAAGTTGAGACTCTCTAAGGCAGGGCGACCCTAAAAACACAGGG  
 AAATCTTTAACTGCTGCCAAGAATATTCCTGTAGGCCCTGGAAGCACCTTCTGATGTGAAACCTGATC  
 TAGAAGATGTGGATGGGTGCTCTTTGTTCTTTGAATCAAAGGAGGCTTTGATATTCATGCAGTTGA  
 TGGGACAACAGAAGAACCTTCTAGTCTTCAGACCACAACCAAAATGATTACAGTTGCAGAACAAGAATT  
 TCCAGTTGGAAGGAATTAATAGAAGATTTGAGTCTTTGAGGCATAAGCAGGTGATACATCCTGCTC  
 TTCAAGAAGTGGGCTTAAAACCTGAATTCAGTGGATCCAACAGTGAGCATTGATCTTAAATACTTGGGAGT  
 ACAATTGCCTTTGGCTCCAGCCACCAGCTTTCCCTATGGAATGTTACAGGTACCAACCCTGCCTCACCT  
 GATGCTGGGTTTCTTTTGTTCAGGACGGGGAAGACCAATGACTTTACAAAAACAAGGGATGGAGAG  
 GAAAAATTCAAAATGCTTCTGCATCTAGGAATGAAGGTGGAATTCAGAGGCTTCACTGAAAAACCGTTC  
 TGCTTTCTGTAGTGATAAGCTAGATGAGTACTTGGAAAAATGAAGGCAAAATGATGGAACAACATAGGT  
 TTCTCTCAAATGCTCCACATCTCCAGTAGTGTACCAGTACCCACCAAGAGTACCAGCTATGTTGCGAA  
 CTCTTGATAGTGTACTAAGAAGCAATCTACCATTTCCCTTCTACCTCTCACTCTGTGAAGCCTCAGTC  
 TGTAACCACTGCCTCTCGAAAAACAAGGCTCAGAACAACAGACAACACTCAGTGGCCGAACTAAATCA  
 TCTTATAAGTCTATTTTACCATACCCTGTTTACCACAAAGCAGAAAAACTCTCATGTGAGCCAAGGAGATA  
 AAATTACCAAGAATTCCTTGAGTTCGACCTCAGATAATCAGGTGACTAATTGGTTGTGCCATCTGTAGA  
 TGAAAAATGCATTTCCAAAGCAGATTAGTTTGGCGCAGGCCAGCAACAGCACCTTCAGCAGCAAGGAACT  
 CGCCCTCCAGGCTTGTGCAATCTCAAGTAAAGCTTATGGACCTGGAAGACTGTGCACCTTGGGAAGGAA  
 AACCAAGGACCTATATTACTGAAGAGCGAGCAGATGTCTCCTTGACAACCTGCTTACTGCTCAGGCATC  
 TCTCAAACTAACCTATCCACACAATCATAAGGAAACGAGCTCCTCCATGCAACAATGACTTCTGTCGC  
 CTGGGTTGTGTGCTCTAGTCTAGCTTTGGAAAAGCGCAACCTGCTCACTGCCGTGACAGACTGCA  
 TGTTTGGTTGCACTTGTGTTGAAAAGAAAAGTTGTGTTGTTAAAGGGGGTCTAAAAACAAGCATTTC  
 TAAGAAGGCTGCTAATCGAGATCCATTATTTTATGATACGCTGGGAGAGGAAGGAAGGGAAGGAGGAGGA  
 GTCAGAGAAGATGAGGAACAATTGAAGGAGAAAAAGAAGAGAAAGACTCGAATACACTGTATGTGAAG  
 CAGAACCTGAGCAGCCGGTTCGACATTACCCACTGTGGGTGAAGGTAGAAGGTGAAGTAGATCCAGAGCC  
 GGTTTATATTCAACTCCTTCTGTCATTGAACCTATAAAACCATTGGTGTGCTCAGCCGGATTTATCT  
 TCTACTACGAAGGGCAACTAACCCCTGGAATTAACCAGCACGAACATATACTCCCAAGCCCAATCCTA  
 TACGAGAAGAGGACAAAGATCCAGTCTATTTGTACTTTGAAAGTATGATGACTTGTGCCGAGTTCGAGT  
 ATATGAACGAAAGAAAGAGGAACAGAGACAACGTCTCCACCCTGTCTCCATCCTCATATTCAGCAG  
 CAGAGTTCCTGTTACTCTAGTCCTGAGAACCCTGTTACAAGGAACTTGATTCTGAACAGACCTTAAAGC  
 AGCTCATTTGTGACTTGGAGGATGATTCTGATAAATCACAAGAAAAGAGCTGGAATCCTCCTGCAATGA  
 AGGAGAGTCTCTTACCTCGTATGTACATCAGAGGTCACCTGGTGGTCTACCAAAATGATAGAGATC  
 ATCTCAGACTGCAACTGGGAAGAAGATCGAAACAAGATCTTGAGCATTTTATCTCAGCACATCAATAGCA  
 ACATGCCACAGTCACTTAAGGTGGGAGCTTATCATTGAGTTGGCTTCTCAGCGGAAGTGTCCGGGTGA  
 GAAGACCCCTCCTGTTTATCTCTCGTGTGAAAACTCTATGCCATCAAGTCAAGACCAAGATGATATG  
 GCTGAGAAAATCTGGATCAGAGACTCCTGATGGTCCATTGTCCTGGGAAAAATGGATGATATCTCTCCTG  
 TGCAGACAGATGCCCTGGATTCAGTGAAGGAGAGATTACATGGAGGCAAGGTCTACCTTTTATGCAGG  
 GCTTTCTCCTTCGGGGAAGCTTGTGGCCTATAAACGTAACCCAGTTCAACTACATCTGGGCTTATCCAG  
 GTAGCATCCAATGCCAAGGTGGCTGCATCCAGGAAACCACGCACCCTGTTGCCTTCAACATCCAATTCCA  
 AAATGGCATCCTCTGGCCAGCAACAAATCGCTCTGGGAAGAATCTGAAGGCATTTGTTCCAGCAAAAAG  
 GCCAATTGAAAATGCCCTCAAATTCAGTACTACTCCACAGATCTCTTCTAACACGTTGAAACGTA  
 GGACCTCGATTGTTGTTGATTCCAGTGCAGCAGGGTCTCCTACGCTTAGACCAATCCAAAACCCACAGC  
 TTCAGGGACAGCGGATGGTCTTGCAACCTGTTAGGGTCCAAGTGAATGAACCTATTACGGCACCCCAA  
 TGGGCAGATTGTCCAACCTACCTTTACATCAGATTCGAGGCTCTAATGCCAGCCAGCTTACAGCCT  
 GTGGTATTTCCGAACCCAGGATCTATGGTGGGAATCCGACTACCAGCTCCTTGCAAAATCTCAGAGACTC  
 CATCATCTTCTGCTTCATCCTCTGCCTTCTGTGATGAGTCTGTGATTGAGGCTGTTGGGTCTTCTCC  
 AACAGTAAATGTCATTTCTCAGGCACCTTCACTGCTTCTCTGATCTAGTTTTGTCTCTCAGGCTGGT  
 AACTGACTCTGAGGATCTCTCTCCTGAAACTCAAACCTTGCAAGTAAAAACAGGCTCTGAAAGCAAAA  
 TAACCCAGCACTGGAGGACAGCCTGTAGGCACTGCTAGCCTCATTCTCTGCAGTCAGGTAGTTTTGC

CTTGTTGAGCTCCCAGGACAAAAGCCTATCCCTAGCTCTGTTCTTCAGCATGTTGCTTCCCTTCAAATA  
 AAAAAGGAATCTCAGAGTACAGACCAGAAAAGATGAAAACAACTCTATCAAAAAGAGAGGAGAACTAAGA  
 AAGCTCTACCATCAAAAGATAAAGCTCTAGACTCTGAGGCTAATAATAATGAAGCAAACTCAGGAATTAT  
 TGCCTCAGAAAATACCTCGAATAATTTCATTGGATGATGGGGGTGATCTTTTGGATGAAGAAACCTTAGG  
 GAAGATGCCAGACCTTATGAATACTCTTATAGCACTGGTCTCATACAGATGAAGACAAAGATGGTGATG  
 AGGACTCTGGGAACAAGAATCAGAACAGTCCAAAAGAAAAACAACTGTTCCAGAAGTTAGAGCTGGCTC  
 TAAAAACATTGATATTATGGCACTCCAAAGCATCAGAAGTATACGGCCTCAAAAAGTGTGTTAAGGTGAAG  
 GTTGAACCGCAGGAGGGATCAGACAATCCAGAGAACCAGATGACTTTCTAGTCTTTCTAAGGACAGTA  
 AATTTGAATTATCGGGGAACCAAGTTAAGGAACAGCAATCTAACTCACAGGCAGAGGCCAAGAAGGATTG  
 TGAAGATTCTCTGGGGAAGGACAGTCTTAGAGAGAGATGGAGAAAAACCTAAAGGGCCCTTAACTCAG  
 AAGTACATTGGAATTTACAGAACTTTAACAAAGAGGCAACGTTTCAGTTCTTTACAGAAATGAAGCCAT  
 GTCAAGAAAATTCTGAACAGGATATCTCTGAATTACTTGGAAAAAGTGGAACTATTGAGAGTGGTGGAGT  
 TCTAAAACTGAGGATGGTTCTTGGAGTGGCATTCTAGTTCTGCGCCTTCTCTATTATCCCTAGGAGA  
 GCTACAAAAGGAAGAAGAGGGAGCAGACATTTTCAGGGTCATTTACTGCTCCAAGAGAACAGATGAAAC  
 CAAAGCAACAGACAAAGGATGGGAGAAGCAGTGTCTGACTTACAGTTTTGGATCTGGAAGATGAGGA  
 TGAGGAAGATGAGAAAACGATGATTCTTTGATGAGATTGTGGATGTTGTCTCTGGCTACCAGAGTGAG  
 GAGGTTGATGTAGAAAAGAATACTATGTAGACTATCTTGAGGATGATGAGCAGGTGGATGTTGAAACAA  
 TAGAAGAGCTTTTCCAGAGGAAATTAACCTTCCCTACAAGAAGACCAGCAACTCACACACAGTCTTCAA  
 ACAGCAGTGTATAGCCATATCTCTGCAGATGAAAAAGCTTCTGAAAAGAGTCGAAAAGGTTTCATTAATT  
 TCTTCAAATGAAAGATGATTGCTGGGGTGATAAACCACACAAAAGAAACAGAAGCTTTTGCATATTACC  
 GACGGACACACTGCCAATGAGCGGCTCGGCGTGGTGAATGAGAGATCTTTTGA AAAATGAAAGT  
 TACATTAGGATTACTTCTTCTTCCAAAGTTTCCAAAAGTCTCATTCTTAATCGGGCATTTCAGTGAAT  
 CAAGGACTAACAGACCAGGCAGATAAATTTGATAGGGCAGAAAAATCTCCTGAGTCGAAAACGAAGTATTT  
 TAATACGGAAGGTATCGTCTCTTTCAGGGAAGACAGAAGAAGTGGTCTGAAAAGCTAGAGTATATTTA  
 TGCAAAAACAACAAGCACTAGAAGCACAAAAAGAAAAAGAAAGCTGGGGTCAGATGAGTTTTGTGTGCC  
 CCCAGAATTGGCACACAGCTGGAGGGATCTTCTGCATCATCTGTAGATCTTGGACAGATGCTCATGAATA  
 ACAGGAGGGGAAACCTTTGATTCTTTCCAGAAAAAGAGACCAGGCTACAGAAAATGCCTCACCTTCTGA  
 CACTCCGCACTCTTCTGCCAACCTGGTAATGACTCCACAAGGGCAGTTGCTTACCCTAAAAGGCCCTTA  
 TTCTCAGGACCAGTGGTAGCGGTTTCTCCTGCTCTTTAGAAGGTGGTCTGAAGCCTCAAGTTGCAAGCA  
 GTACTATGTCTCAGTCTGAGAATGATGACTTATTTATGATGCCACGAATTGTCAATGTGACATCATTGGC  
 TGCAGAGGAAGATTTGGGAGGTATGAGTGGCAACAAATACCGTACGAAGTTCTGATGGCAAGCCACTT  
 GACCACCTGAGAGACATTGCTGGGAGTGAAGCCAGCTCCTTAAAAGATACAGAGAGAATCTTCCAGAG  
 GAAACCATCGAGATAGCAGAAAGGCACTGGGTCCAACACAGGTGCTTTTGGCAAAATAAAGATTCTGGGTT  
 TCCACATGTAGCTGATGTTTCCACTATGCAGGCAGCACAGGAATTTATACCTAAAAATATGTCTGGTGAT  
 GTGAGAGGGCATCGGTATAAATGGAAGGAGTGTGAGTTGAGAGGAGAGAGACTAAAGTCAAAGGAGTCTC  
 AGTTTCATAAATTAAGATGAAAGATCTGAAGGACTCAAGCATAGAGATGGAAGTGAAGGAAAGTAGCCTC  
 GGCTATCGAGGAAGCAGCCCTCCATCCCAGTGAAGTGTGACTAACATGGAAGATGAGGATGACACTGAT  
 GAGACTCTGACTTCACTGCTCAATGAAATGCTTTTCTTAATCAACAGCTAAATGATGACTTGGCCTAG  
 CTGAACGTGTCAGGTTCTATGGATACAGAATTTCTCAGGAGATGCTCAGCGAGCTTTTATCAGTAAACTTGC  
 TCCTGGGAACAGATCAGCTTTCCAAGTTGGACACTTGGGAGCAGGTGTGAAAAGATTGCCTGATGTCAA  
 GAGGAGAGTGAATCCATCAGCCCTCCTCTTGCACCTTGAAGATGATGACTTTTCTGAGAATGAAAAAC  
 AGCTTGGGGACACAGCCTCTGAGCCAGATGTCCTTAAGATTGTTATTGACCCTGAAATAAAGGATTCTCT  
 TGTTTTCCATAGGAAATCTAGTATGGAGGGCAGAGTACTTCTGGTCTCCCCGCAGAGCCTGAAAGTGTA  
 TCTTACCTCCCATCTTACACATGAAGACTGGCCCGGAGAACAGCAACACAGATACTTTGTGGAGGCCTA  
 TGCCAAAGTTGGCCCATTAGGTTTAAAAGTAGCTAATCCCCCAGTGTGCCGATGGTCAGAGTCTCAA  
 GGTGATGCCTGCCTTGGCACCTATAGCTGCCAAAGTTGGGTCAATTGGACACAAAATGAATTTAGCAGGA  
 ATTGACCAGGAAGGCCGGGGAGCAAGGTGATGCCTACATTGGCACCTGTTGTACCTAAATTTGGGCAACT  
 CTGGAGCTCCATCAAGTTCATCAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223534 representing NM\_001164274  
 Red=Cloning site Green=Tags(s)

MEEKQIILANQDGGTGTGGAPTFVILKQPGNGKTDQGILVTNRDARALLSRESSPGKSKEKICLPADC  
 TVGKITVTLDNNSMWNNEFHNRSTEMILTKQGRMFYCRYWITGLDSNLKYILVMDISPVDSHRYKWNGR  
 WWPESGKAEPHILGRVF IHPESPSTGHYWMHQPVSFYKLLTNNTLDQEGHIIILHSMHRYLPRHLVPAE  
 KATEVIQLNGPGVHTFFPQTEFFAVTAYQNIQITQLKIDYNPFAKGRFDDGLSSKQREKQQRNSSDQE  
 GNSVSSSPAHRVRLTEGEGSEIHSQDFPVLRGHEASSLSLEKAPHNVKQDFLGFMTDSTHEVPQLKHE  
 ISESRIVNSFEDDSQISSPSNPNGNFNVVKEEPLDDYDVELGECPEGITVKQEETDEETDVYSNSDDDP  
 ILEKQLKRHNKVDNLEADHPSYKWLPNSPGVAKAKMFKLDAGKMPVVYLEPCAVTKSTVKISELPDNMLS  
 TSRKDKSMLAELEYLPAYIENSQDGFCLSKDSENSLRKHSPDLRIVQKYTLLEPNWVYDILDNSSTE  
 RIHSSKGSTAESFSGKEDLGKRTTMLKMAIPSKTVTASHASPNTPGKRGRPRKLRKSKAGRPPKNTG  
 KSLTAAKNIPVPGSTFPDVKPDLVDVGLFVSFESKEALDIHAVDGTTEEPSSLQTTTNDSGCRTRI  
 SQLEKELIEDLKRHKQVIHPALQEVGLKLSVDPTVSIDLKYLGVQLPLAPATSFPLWVNTGTNPASP  
 DAGFPFVSRGTNDFTKIKGWRGKFNASASRNEGGNSEASLKNRSFAFCSDKLDEYLENEGKLMETNIG  
 FSSNAPSPVVYQLPTKSTSYVRTLDSVLKQKSTISPSTSHSVKQSVTTASRKTAKAQNQTTLSGRTKS  
 SYKSILPYVSPKQKNSHVSQGDKITKNSLSSTSDNQVTNLVVPVSDENAFPKQISLRQAQQQLQQGT  
 RPPGLSKSQVKLMDLEDCALWEGKPRTYITEERADVSLTLLTAQASLTKPIHTIIRKRAPPCCNDFCR  
 LGVCVSSLALEKRQPAHCRPPDCMFGCTCLKRKVVLVKGGSKTKHFHKAANRDLFYDTLGEEGREGGG  
 VREDEEQLEKKEKRRKLEYTVCEAEPEQVVRHYPLVWKVEGEVDPEPVYIPTPSVIEPIKPLVLPQDLS  
 STTKGKLTGPIKPARTYTPKPNPIREEDKDPVYLYFESMTCARVRYERKKEEQRLSPPLSPSSSFQ  
 QSSCYSSPENRVTKELDSEQTLKQLICDLEDDSDKSQEKSWKSSCNEGESSTSYVHQSPGGPTKLEI  
 ISDCNWEEDRNKILSILSQHINSNMPQSLKVGFSIELASQRKCRGEKTPPVYSSRVKISMPSSQDDM  
 AEKSGSETPDGLSPGKMDDISPVQTDALDSVRERLHGGKGLPFYAGLSPSGKLVAKYRKPSTTSGLIQ  
 VASNAKVAASRKPRTLLPSTSNKMASSGPATNRSKGNLKAFFVPAKRPIENAPQIPVTTQISSNNVKT  
 GPRLLLIPVQGSPTLRPIQNPQLQGQRMVLQPVGRPSGMNLFHRPNQIIVQLLPLHQIRGNSAQPQLP  
 VVFRNPGSMVGIPLPAPCKSSETPSSSASSAFVMSPIQAVGSSPTVNVISQAPSLSSGSSFVSQAG  
 TLTLRISPPEQTNLASKTGSESKITPSTGGQPVGTASLIPLQSGSFALLQLPGQKIPSSVLQHVASLQI  
 KKEEQSTQKDENSIKREEETKALPSKDKALDSEANIMKQNSGIIASENTSNNSLDDGGDLLDEETLR  
 EDARPYEYSYSTGSHTEDEKDGDEDSGKNQNSPKEKQTVPEVRAGSKNIDIMALQSIRSIRPQKCVKVK  
 VEPQEGSDNPNPDDFLVLSKDSKFEKSGNQVKEQQSNSQAEAKKDCEDSLGKDSLREWRKHLKGLTQ  
 KYIGISQNFNKEANVQFFTEMKPCQENSEQDISELLGKSGTIESGGVLTEDGSWSGISSAAAFSIPRR  
 ATKRRGRSRHFQGHLLPREQMKPKQTKDGRSSAADFTVLDLEDEDEDEKTDSDLEIVDVVSGYQSE  
 EVDVEKNYVDYLEDDEQVDVETIEELSEEINFPYKTTATHTQSFQKQCHSHISADEKASEKSRKVS  
 LSSKLDKDCWGDKPHKETEAFAYYRRTHTANERRRRGEMRDLFEKLIKITLGLLHSSKVSLSILNRAFSEI  
 QGLTDQADKLIQKQNLNLSRKRSLIRKVSLSGKTEEVVLLKLEYIYAKQQALEAQRKKKLGSDEFVCS  
 PRIGTQLEGSSASSVDLQMLMNNRRGKPLILSRKRDQATENASPSDTPHSSANLVMTQQGLLTLKGPL  
 FSGPVAVSPALLEGLKPVASSTMSQSENDDLMMPRIVNVTSLAAEEDLGGMSGNKYRHEVPDGKPL  
 DHLRDIAGSEASSLKDTERISSRGNHRDSRKALGPTQVLLANKDSGFPHVADVSTMQAAQEFIPKNMSGD  
 VRGHRYSKWECELRGERLKSQSFHKLKMKDLKDSSEIEMELRKVASAIEEAALHPSELLTNMEDEDDTD  
 ETLTSLLNEIAFLNQQLNDDSLAELSGSMDTEFSGDAQRAFISKLAPGNRSFQVGHLAGYKELPDVQ  
 EESEISPLLLHLEDDDFSENEQLGDTASEPDVLIKIVIDPEIKDSLVSHRKSSDGGQSTSGLPAEPESV  
 SSPPILHMKTGPENSNTDLWRPMPKLAFLGLKVANPPSDADGQSLKVMPALAPIAAKVGSIQGHKMLAG  
 IDQEGRSGKVMPTLAPVVPKLGNSGAPSSSSGK

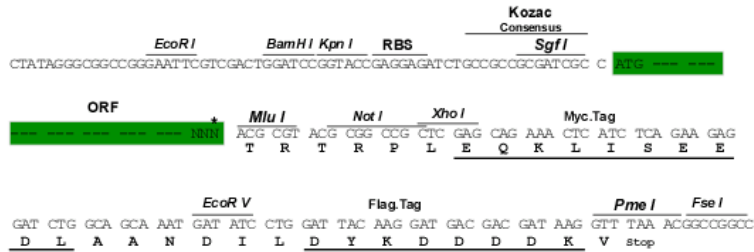
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

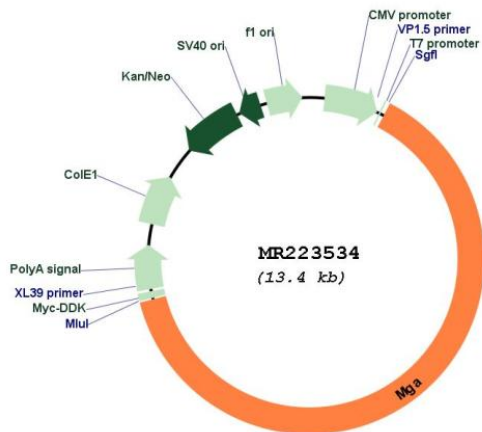
## Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

## Plasmid Map:



ACCN: NM\_001164274  
 ORF Size: 8499 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001164274.1</a> , <a href="#">NP_001157746.1</a>
<b>RefSeq Size:</b>	13304 bp
<b>RefSeq ORF:</b>	8502 bp
<b>Locus ID:</b>	29808
<b>Cytogenetics:</b>	2 E5
<b>MW:</b>	312.6 kDa
<b>Gene Summary:</b>	Functions as a dual-specificity transcription factor, regulating the expression of both MAX-network and T-box family target genes. Functions as a repressor or an activator. Binds to 5'-AATTCACACCTAGGTGTGAAATT-3' core sequence and seems to regulate MYC-MAX target genes. Suppresses transcriptional activation by MYC and inhibits MYC-dependent cell transformation. Function activated by heterodimerization with MAX. This heterodimerization serves the dual function of both generating an E-box-binding heterodimer and simultaneously blocking interaction of a corepressor.[UniProtKB/Swiss-Prot Function]