

Product datasheet for **MG211931**

Mink1 (BC052474) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mink1 (BC052474) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mink1
Synonyms:	B55, MINK, RP23-122P1.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211931 representing BC052474 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACCCAGCCCCCGCCGACGCTGGACGACATCGACCTGTCTGCCCTGCGGGACCTGCAGGAA
TCTTTGAGCTGGTGGAGGTGGTTGGCAATGGAACCTATGGACAGGTATACAAGGGCGGCACGTCAAGAC
TGGGCAGCTGGCTGCCATTAAGGTCATGGATGTCACAGAGGATGAGGAGGAAGAGATCAACAGGAAATC
AACATGTTAAAGAAGTACTCTACCATCGCAATATTGCCACCTACTATGGGGCCTTTATCAAGAAGAGCC
CTCCTGGGAACGATGACCAGCTGGCTGGTGATGGAGTTCTGCGGTGCTGGTTCAGTGACCGACCTGGT
AAAGAACACAAAAGGGAACGCACCTGAAGGAGGATTGCATTGCTTACATCTGCAGGGAGATTCTCAGGGGT
CTTGCCCATCTCCATGCCACAAGGTGATCCACAGAGATATCAAGGGACAAAATGTGCTGCTGACAGAGA
ATGCTGAAGTCAAGCTAGTGGATTTTGGGGTGAGTGCTCAGCTGGACCGCACTGTGGGCAGGCGGAACAC
TTTCATTGGAACCCCATACTGGATGGCTCCAGAAGTCAATGCCTGTGACGAGAACCCCGATGCCACCTAT
GACTACAGGAGTGACATTTGGTCTCTAGGAATCACAGCCATTGAAATGGCAGAGGGAGCCCCCCTCTGT
GTGACATGCACCCTATGCGGGCCCTCTTCCTCATCCCTCGGAACCCTCCCCCAGGCTCAAGTCAAAGAA
ATGGTCTAAGAAGTTCAGTACTCATCGACACGTGTCTCATCAAGACTTACCTGAGCCGCCACCCACC
GAACAGTTACTCAAATTCCTTCCATCCGAGACCAGCCACGGAGCGGCAGGTCCGCATCCAGCTCAAGG
ACCACATCGACCCTCGCGGAAGAAGCGGGAGGAGACAGAGTATGAGTACAGCGGCACTGAGGAGGAAGA
CGACAGCCATGGAGAGGAAGCGAGCCTCCATCATGAATGTGCCCGGTGAGTCCACACTGCGCAGA
GAATTCCTCAGACTCCAGCAGGAGAATAAGAGCAACTCTGAGGCTTTAAAGCAGCAGCAGCAGCTGCAGC
AACAGCAGCAGCGGGACCCGGAGGCACACATCAAACACCTGTGCACCAGCGGCAGCGTCGCATAGAGGA
GCAGAAGGAGGAGCGGCACGTGTGGAGGAGCAACAGCGGCAGAGCGAGAACAGCGTAAGCTACAAGAG
AAGGAGCAGCAGCGCGATTGGAAGACATGCAAGCCCTACGACGAGAGGAAGAGAGGCGGAAGCAGAGC
GGGAACAGGAATACAAGCGGAAGCAGCTGGAGGAGCAGCGGCAGTCAGAGCGGCTGCAGAGACAGCTGCA
GCAGGAGCAGCCTACCTCAAGTCCCTGCAGCAGCAGCAGCAGCAGCAGCTCCAGAAGCAGCAGCAG



CAGCAGCAGCAGATCCTGCCTGGAGACAGGAAGCCCCTGTATCATTACGGTCGGGGCATTAACTCCTGCTG
ACAAGCCAGCATGGGCCCGCAGGTGGAAGAGAGACACGGATGAACAAGCAGCAGAAGCTCTCCCTTGGC
GAAGGCCAAGCCAAGCAGTGCAGGGCCAGAGCCCCCATCTCCAGGCCTCTCCTAGCCCCCAGGACCT
CTTTCCAGACTCCTCTATGCAGAGCCCTGTGGAGCCCCAGGAAGACCGCACAAAGAGCCTGGTGGCAC
ACCGGGTCCCAGTGAAGCCATAAGCAGCACCTGTACCCCGATCCCAGTCCCTGCAGGACCAGCCGACTCG
AAACCTGGCTGCCTTCCCAGCCTCCCACGACCTGACCCCTGCTGCTGCTCCCTACACCCACTGCCACACCC
AGTGGCCGAGGAGCTGTATCCGCCAGAATTCAGACCCACCTCTGAAGGGCCAGGGCCTAGCCCCAAACC
CTCCATCCTGGGTTCCGGCCTGATAATGAGGCTCCACCTAAGGTTCCACAGAGGACCTCTTCTATCGCCAC
TGCCCTTAACACCAGTGGGGCCGGAGGGTCCCGCCAGCTCAGGCTGTCCGTGCCAGACCTCGCAGTAAC
TCCGCCTGGCAAATCTATCTGCAGAGGGCCAGAGCGGGGACCCCCAAGCCTCCCGGGCCCCAGCTC
AGCCCCCTGGCCCGCCAAACGCCTTAGTAACCTGACCTCAGGAGGAGTGACCCCTGGCTGGGAGCGCTC
AGACAGTGTCTCCCGCCTCCCACGGCCACCTCCCTCAGGCTGGCTCCTTGGAGCGAACCAGAACCGT
GTGGGAGCCTCCACAAAAGTGGATAGCTCTCCAGTGTCTCCCTGGGAACAAAGCCAAGCCTGAAGACC
ACCGCTCAAGGCCAGGCCGGCCCGCAGACTTTGTGTTGCTCAAAGAGCGGACTCTGGATGAGGCCCTAA
GCCTCCCAAGAAGCCATGGACTACTCCTCATCCAGTGAAGGAGGTGAAAGCAGTGAAGAGGAGGAGGAG
GAAGGCCATGGGAGCCCTCAGAGGGGAGCAGAGACACTCCCGGGGCCAGTGTGATGATGATACAGACA
GCGTCAGCACCATGGTGGTTCATGATGTTGAGGAGATATCCGGGACCCAGCCCTCATATGGCGGGCCAC
CATGGTGGTCCAGCGTACTCCTGAAGAGGAACGAAGCCTGCTGCTTGCTGATAGCAATGGCTACACAAAAC
CTGCCTGATGTGGTCCAGCCCAGCCACTCACCTACTGAGAACAGCAAAGGTCAAAGCCCTCCAACAAAGG
ATGGAGGCAGTGATTACCAGTCTCGTGGGCTGGTAAAGGCCCCAGGAAAGAGTCAATCACCATGTTTGT
GGATCTAGGGATCTACCAGCCTGGAGGCAGTGGGGACACCATCCCTATCACAGCCCTAGTGGGTGGAGAA
GGTGGTGCCTTGATCAACTGCAGTTCGATGTGAGGAAGGGCTCTGTGGTCAACGTCAATCCCACCAACA
CCCGAGCTCATAGTGAACCTCCTGAAATTCGCAAGTACAAGAAGCGATTCAACTCAGAGATCCTATGTGC
AGCTCTCTGGGGGTCAACCTCCTAGTGGGCACAGAGAATGGGCTGATGTTGCTGGACCGAAGTGGGCAG
GGCAAGGTGATGGACTTATTGGGCGACGACGCTTCCAGCAAATGGATGTCTTAGAAGGGCTCAACTTGC
TCATCACCATCTCAGGAAAAGGAACAAACTGCGGGTATATTACCTGTCTGGCTTCCGAAACAAGATCCT
ACACAATGACCCAGAGGTGGAAGAAGCAGGGGTGGACCACCGTGGGGGACATGGAGGGCTGCGGCCAC
TACCGTGTGTGAAATATGAACGGATTAAGTTCCTGGTCAATGCCCTGAAGAACTACGTGGAGGTTTATG
CCTGGGCTCCCAAACCCTACCACAAATTCATGGCCTTCAAGTCTTTGCTGACCTCCCTCACCGCCCTCT
ACTGGTGGACCTGACAGTAGAGGAGGGACAGCGGCTCAAGGTCATCTATGGCTCCAGTGTGGCTCCAT
GCTGTGGATGTTGATTCTGGGAACAGCTATGACATCTACATCCCTGTACATATCCAGAGCCAGATCACAC
CCCACGCCATCATCTTCTCCCAACACTGATGGCATGGAGATGCTGCTGTGCTATGAAGATGAGGGTGT
CTATGTCAACACTTACGGGCGGATCATCAAGGATGTGGTGTGCTGAGTGGGGAGAGATGCCACCTCTGTG
GCCTACATCTGCTCCAACCAGATAATGGGCTGGGGTGAAGGCCATAGAGATCCGCTCTGTGGAGACAG
GCCACCTAGATGGGGTCTTATGCACAAACGAGCCAGAGGCTCAAGTTCCTGTGTGAGCGCAATGACAA
GGTGTTTTTGCTCTGTCCGCTCTGGAGGAAGCAGCCAAGTTTACTTTTACTTATGACTCTGAACCGTAACTGC
ATCATGAACTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

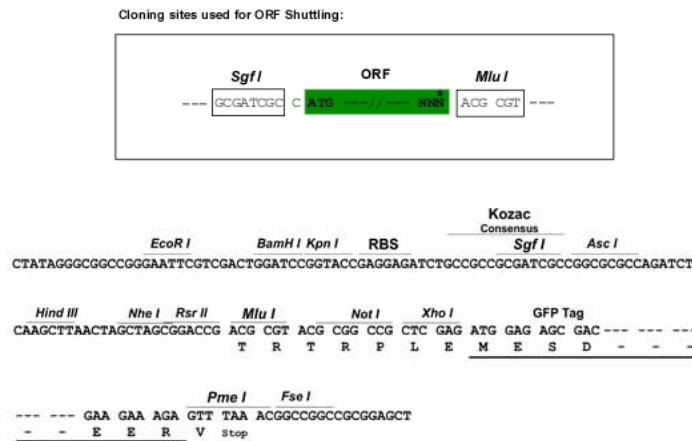
Protein Sequence: >MG211931 representing BC052474
 Red=Cloning site Green=Tags(s)

MGDPAPARSLDDIDL SALRDPAGIFELVEVVNGTYGQVYKGRHVKTGQLAAIKVMDVTEDEEEEIKQEI
 NMLKKYSHHRNIATYYGAFIKKSPGNDQLWL VMEFCGAGSVTDLVKNTKGNALKEDCIAIYICREILRG
 LAHLHAHKVIHRDIKQNVLL TENAEVKLVDFGVSAQLDRTVGRNRTF IGTPYWMAPEVIACDENPDATY
 DYRSDIWSLGITAIEMAEGAPPLCDMHPMRALFLIPRNPPLKSKKWSKKFTDF IDTCLIKTYLSRPPT
 EQLLKFPFIRDQPTERQVRIQLKDHIDRSRKKRETEYEYSGSEEDDSHGEEGEPSSIMNVPGESTLRR
 EFLRLQQENKSNSEALKQQQQLQQQQQRDPEAHIKHLLHQRRRIEEQKEERRRVEEQRREREQRKLQE
 KEQQRRLQEDMQALRREEERRQAEREQEYKRKQLEEQRQSERLQRQLQOEHAYLKSLQQQQQQQLKQQQ
 QQQQILPGDRKPLYHYGRGINPADKPAWAREVEERARMNKQONSPLAKAKPSSAGPEPPI SQASPPGP
 LSQTPPMQRPVPEQEGPHKSLVAHRVPLKPYAAPVPRSQSLQDQPTRNLAAFPASHDPDPAAVPTPTATP
 SARGAVIRQNSDPTSEGPGSPNPPSWVRPDNEAPPKVPQRTSSIATALNTSGAGSRPAQAVRARPRSN
 SAWQIYLQRRARERTPKPPGPAQPPGPNASSNPDLRSDPGWERSDSVLPASHGHL PQAGSLERNRNR
 VGASTKLDSSPVLSPGNKAKPEDHRSRGRPADFVLLKERTLDEAPKPPKAMDYSSSSEEVESSEEEEE
 EGDGEPSEGRDTPGGRSDGDTDSVSTMVVDVEEISGTQPSYGGTMMVQRTPEEERSLLLADSNGYTN
 LPDVVQPSHSPTENSKGQSPPTKDGGSDYQSRGLVKAPGKSSFTMFVDLGTYPGGSGDTPITALVGGG
 GGRLDQLQFDVRKGSVVNPNPTNTRAHSETPEIRKYKRFNSEILCAALWGVNLLVGTENGLMLLDRSGQ
 GKVYGLIGRRRFQQMDVLEGLNLLITISGRNKLRVYYL SWLRNKLHNDPEVEKKQGWTTVGDMEGCGH
 YRVVYERIKFLVIALKNYVEVYAWAPKPYHKFMAFKSFADLPHRPLLVDLTVEEGQRLKVIYGSSAGFH
 AVDVDSGNSYDIYIPVHIQSQITPHAIIFLPNTDGMEMLLCYEDEGVYVNTYGR I IKDVLVQWGMPTSV
 AYICSNQIMGWGEKAIEIRSVETGHLDGVMHKRAQLKFLCERNDKVFFASVRSGGSSQYVFMTLNRNC
 IMNW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

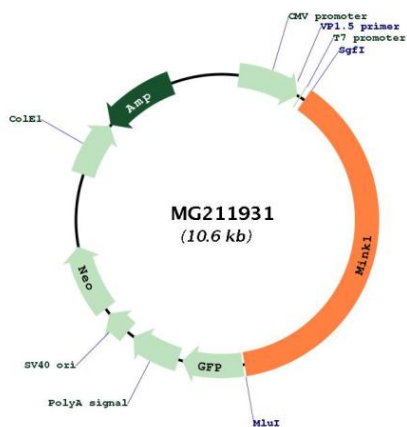


ACCN: BC052474

ORF Size: 4004 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:	BC052474 , AAH52474
RefSeq Size:	4842 bp
RefSeq ORF:	4004 bp
Locus ID:	50932
Cytogenetics:	11 B3
Gene Summary:	Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211931