

Product datasheet for **MG209137**

6620401K05Rik (BC078458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	6620401K05Rik (BC078458) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	6620401K05Rik
Synonyms:	5930438A12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209137 representing BC078458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGACCCCCGCACCGAACGCCACAGGAAACAGAGTGGCGGCCCTGGAGCCTTCCCGGTCTGT
 CTCGATCCATTGAGAACCCTCCGAGCAAGCGGGCCCGGAGCTTCTCTGAGACCACAGTCCCGGACCCCGA
 AGACCCATTTCGGTGAGCACGCGGAATTTACTGCGGACGACCTAGAGGAACTCGACATCCTCGCGTCACAG
 GCCCTGAGCCAGTGTCCCGTCGCGCCTCGGAACCTGTCCAGTGCTCATAAGGTCCGCCGATTAGATGGGT
 TACCAAAATAGTCTATAAGGAAAAGCAGAGAAGATATTCCAGTTAAAGATAATTTTGAATTAGAAGTACT
 TCAGATAACAATACAAAGAACTTAAAGAAAAGCTGAAAGCAATGGAAGAAGAAATCCTAATTAAGAATGGA
 GAAATTAATTTTTCGCTGACTCTCTGCGTCAGACAGAATCCGTTCTAGAAGAACAGAAAAGATCACATT
 TCCTTCTTGAGCAAGAAAAGACTCAAGCACTCAGTAAAAGGAAAAGGAATTCAGAAAAGCTCCAATC
 ACTGCAGTCTGAACTGCAGTTTAAAGACGCAGAAATGAATGAGTTAAGGACAAAGTCTCAGAGCAACGGA
 CGAACAATAAGCCAGCCGCTCCCTCCGCTCCCACGTCAGTCCCTAGGAAAGGCTTCTGTGGTTCTCA
 AGTCAGAAGCATGTTCTCCACATGTTGGAAAAACAACCTTCCCTACAAAAGAATCTTTTAGTGCTAACAC
 GCCTCTCTCCACCCCTGTGAGACTGAGGCAGGACACAGATTTCTGGTGGGCAAGAGGTTTCAGATAAT
 AAAAACACAGTCTGGGAGGTAGCCTCATGAAGCAAGATGTGCAGCAGAGAATTCGGCTGATGGCTGGA
 TGCAGAGAAAAGATGCTCAAGTTCTATTTTGATAAACTGTCTCTGAAGCAACCTTTGGTGCCAGGGTC
 ATCTCTAGGTCTTTGTACCTTCTGAGCAGTTGTCTGAGGTTCTACTGGCACCTCTTGACGCCACCA
 GGGCTCAGTACTTTCCCTGGGACTTCAGGCCTCAGGACCATCAGTTCTTCTGATGGGCCATTTCCCCCT
 CTGCCCTGAGAGAAGCACAGAAGTTGGCATTACTGGATTAATCTGGTTGCCAGGACTGAGAGCTCACA
 TGATGGAGACATGGCAGGCAGAAGAGTCTCCCGCTCCACCAGCTTCTGGAGCTGTGCATCTCCTTCT
 CTTGTGCAGTTTTTCGTCGGCTTACACTGCCAGGCTCTGCAAGATTTAGCCCCAGCTAAGAAGAGTGGGG
 TGCTGGGACTCTGCGACACATACCTCTGCATGAGCTCTGGGGTCGAGGCTAGCCAGAGGACTCCAT
 TCATGGCTTGAGAGCTTTTCTGTGGCATCACTCAGCGTCCTCAGAACCTGGTGTGCCACAGTGGGGCA
 GTTGTCTGCCTGTTACTGTGAGCATGGGGACAGAAGCTGCCGCCAGGGAAGGAACTTGGTCCAGACTT
 GTGCAGATAAACCTCAGCCTCCAGGGAGGATGCTCATGACCAAGACCAGCACCCACTGCTAAAGATGCT
 TCTTCAGCTGATGGCTTCTCCTCTGCAGCATCAGGTTCTCCTGTGTGTCCCGGTGTGCCACAGTGCC
 TCGGCTCAGCGCTGCCGCTGCCCTGTGTCTCCTGGCTGTGAGCTGCTCTGTGCTGCTGGACCATGA
 CAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209137 representing BC078458
 Red=Cloning site Green=Tags(s)

MAGTPAPNSHRKQSGGLEPFPGLSRSIENPPSKRARSFSETTVDPEDPFGHEAEFTADDLEELDILASQ
 ALSQCPVAPRNLSAHKVRRLDGLPNSPIRKSREDIPVKDNFELEVLQIQYKELKEKLKAMEEEILKNG
 EIKILRDSLRLQTESVLEEQRSHFLLEQEKTQALSEKEKEFSRKLQSLQSELQFKDAEMNELRTKSQNSG
 RTNKPAAPSVSHVSPRKGSSVVLKSEACSPHVGTTFPTKESFSANTPLFHPQCQEAGHRFLVQVEVSDN
 KNHSLGGSLMKQDVQQRILADGWMQRKDAQGSILINLLKQPLVPGSSLGLCHLLSSCPEVPTGTLQPP
 GLSTLPGTSGRLTISSSDGPFSALREAQNLAFTGLNLVARTESHDGDMAGRRVFPLHQLPGAVHLLP
 LVQFFVGLHCQALQDLAPAKKSGVPGDSATHTSCMSSGVEASPEDSIHGLESFVASLSVLQNLVCHSGA
 VVCLLLSGMGTEAAAREGNLVQTCADTTASREDAHDQDQHPLLKMLLQLMASSSAASGSPVCSRCCHSA
 SAQRRCRPVCSWLLSCSLCCWTMTA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC078458

ORF Size: 1757 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: [BC078458](#), [AAH78458](#)

RefSeq Size: 2462 bp

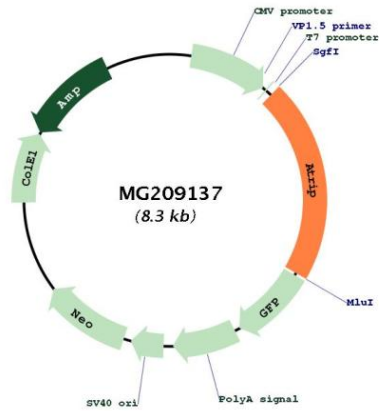
RefSeq ORF: 1757 bp

Locus ID: 235610

Cytogenetics: 9 F2

Gene Summary: Required for checkpoint signaling after DNA damage. Required for ATR expression, possibly by stabilizing the protein (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209137