

Product datasheet for **MR209457**

9030617003Rik (NM_145448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	9030617003Rik (NM_145448) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	9030617003Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209457 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATCTCATTCTCCTGAGGTCTGTCTTCGCTCTGCTGTAAAGAGTCTACCAAGGCAGCACTTA
 TCAGAAACACTTCCAGCATGACGGAAGGACTCCAGCCGGCTAGTGTGGTGGTCTGCCAGATCCCTAGC
 ACCAGCTTTTGAAGCTTCTGCCAGGGCAACCGGGTCTCTGCCCTCCTTGGACAAAGTGAGGCGGTG
 AAGACTCCCTCAGCTGAGCGCTGTTCCAGACATAAGGACCATCTGTCCACAGTTGCAGAAATACAAGT
 TTGGCACCTGCACAGGCATCCTGACCTCAATGGAAGAGCACTCAGAACAACTAAAAGAAATGGTGACCTT
 CATCATAGACTGCAGTCTTTCATAGAAGAGGCCCTTGGAGCAGGCAGAGATCCCCAGAAGAGACCTAACA
 GGTCCCAGCCATGCAGGAGCATAACAAGACAACAGTGCCCTGTGCCACATTGCTGGCTTCTGCTGCCCTC
 TGGTGGTCACAATGAGACCCATTCCAAGGACAAGCTGGAAGGCTGTTGCAGGCCACTCACGCCATAAG
 AGGACAGCAAGGACAACCCATTCACATCGGTGACCCAGGTCTTTTGGGAATTGAGGCACTTCCAAACCT
 GACTACGGGAGTTATGTGGAGTGTGGCCCGAGGATGTCCTGTGTTCTGGCCATCTCCGCTGACCAGTC
 TGGAAAGCAGTCATCAGCTGCAAGGCTCCATTGGCTTTCGCCAGCCCTCCAGGCTGCATGGTGATGGTCCC
 GAAGGACACAGCGTCTTCAGCCAGTTGTCTGACTCCTGAGATGGTTCAGAAATCCATGCCATTTCCAAA
 GACCCTTTGCATTACAGCATAGTGTGACCCCTGCTGCTCAAAAGGTCAGAGAGCTAGAGTCCACAATTG
 CCGTAGACCCAGGGAACCGAGGAATCGGGCACCTCTACTTAAAGATGAGCTACTGCAAGCTGCTTTGTC
 ACTGTCTCATGCCGCTCCGTACTCGTCACCACTGGATTCCCAACACATTTCAATCATGAGCCCCAGAA
 GAGACAGATGGCCACCAGGAGCCATCGCCTTAGCTGCCTTCTACAGGCTCTGGGAAGGAGACCCGCCA
 TGGTAGTAGACCAGAGCCTTGAACCTGCATATGAGGATTGTTGAAGACGCCATTAGGCAAGGAGTTCT
 AAAGACACCGATTCCCATATTAACCTACCAAGGAAGATCCATGGAAGATGCTCGGGCATTCTTGTGCAAA
 GATGGGGACCCTAAGTCTCCTAGATTTGACCATCTGGTGCCATAGAGCGTGCGGGAAGGCTGCTGATG
 GCAATTAACAACGCGAGGAAGATGAACATCAAACTTAGTTGACCCATTGATGACATTTTCTCTGTC
 TGCACAAAAGATTCTGGCATCTCATCACTGGTGTGGTGACGGAGGTAATGAGCTTGAATGGGCAAA
 GTAAAGGCGGCCGTGAAGAAGCACATTAGAAATGGAGATGTCATTGCCTGTGATGTGGAGGCTGATTTG
 CTGTCATTGCCGGTGTCTAACTGGGGAGGCTACGCCCTGGCCTGTGACTGTATATTCTGAACATG
 TCAAGTCCATGAGCGCTACCTAAGGAGGCAACTGGACCTTCCAGGAGAGCTGGGAACAGAGCTGGATC
 CAGGCCCTGCCATCTGTGCTAAGGAAGAAAAGATGTTGGGCATCCTGGTAGAGAACCAAGTCCGACGTG
 GTGTCTCAGGCATCGTGGGCATGGAAGTGGATGGGCTGCCTTTCATGACGTTTCATGCTGAGATGATCCG
 GAAGCTGGTGGTGCCACCACAGTGCACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209457 protein sequence
 Red=Cloning site Green=Tags(s)

MTISFLLRSLRSVRSPLKAAALIRNTSSMTEGLQPASVVVLPRSLAPAFESFCQGNRGLPLLQGSQSEAV
 KTLPLQLSAVPDIRTICPQLQKYKFGTCTGILTSMEEHSEQLKEMVTFIIDCSFFIEEALQAEIPRRDLT
 GPSHAGAYKTTVPCATIAGFCPLVVTMRPIPDKLERLLQATHAIRGQQQPIHIGDPLLIEALSKP
 DYGSYVECRPEDVPVFWPSPLTSLEAVISCKAPLAFASPPGCMVMVPKDTASSASCLTPEMVEVHAISK
 DPLHYSIVSAPAAQKVRELESTIAVDPGNRGIGHLLKDELLQAALSLSHARSVLVTTGFPHFNHEPPE
 ETDGPPGAIALAAFLQALGKETAMVVDQRALNLHMIRIVEDAIRQGVLPKIPILTYQGRSMEDARAFCK
 DGDPKSPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDFLAAQKIPGISSTGVGDGGNELGMGK
 VKAAVKKHIRNGDVIACDVEADFVIAAGVSNWGGYALACALYIILNSQVHERYLRRATGPSRRAGEQSWI
 QALPSVAKEEKMLGILVENQVRSGVSGIVGMEVDGLPFHDVHAEMIRKLVGATTVHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_145448

ORF Size: 1854 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_145448.1](#)

RefSeq Size: 3229 bp

RefSeq ORF: 1854 bp

Locus ID: 217830

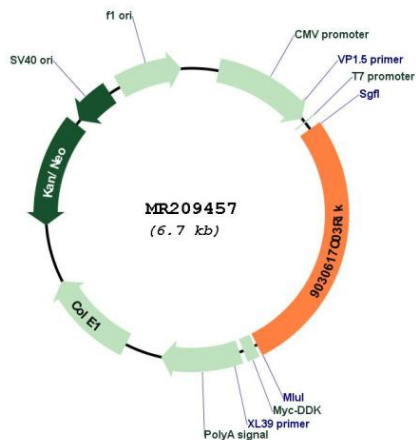
UniProt ID: [Q8BH86](#)

Cytogenetics: 12 E

MW: 66.5 kDa

Gene Summary: D-glutamyl cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209457