

## Product datasheet for **MC219685**

### 9030617003Rik (NM\_145448) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC219685 representing NM\_145448  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCATCTCATTCTCCTGAGGTCTGTCTTCGCTCTGCTGTAAAGAGTCTACCAAGGCAGCACTTA  
 TCAGAAACACTTCCAGCATGACGGAAGGACTCCAGCCGGCTAGTGTGGTGGTCTGCCAGATCCCTAGC  
 ACCAGCTTTTGAAGCTTCTGCCAGGGCAACCGGGTCTCTGCCCTCCTTGGACAAAGTGAGGCGGTG  
 AAGACTCCCTCAGCTGAGCGCTGTTCAGACATAAGGACCATCTGTCCACAGTTGCAGAAATACAAGT  
 TTGGCACCTGCACAGGCATCCTGACCTCACTGGAAGAGCACTCAGAACAATAAAAAGAAATGGTACCTT  
 CATCATAGACTGCAGCTTCTCCATAGAAGAGGCCCTTGGAGCAGGCAGGGATCCCCAGAAGAGACCTAACA  
 GGTCCCAGCCATGCAGGAGCATAACAAGACAACAGTGCCCTGTGCCACCATGTCTGGCTTCTGCTGCCCTC  
 TGGTGGTCACAATGAGACCCATTCCAAGGACAAGCTGAAAGGCTGTTGCAGGCCACTCACGCCATAAG  
 AGGACAGCAAGGACAACCCATTACATCGGTGACCCAGGCTTTTTGGGAATTGAGGCACTTCCAAACCT  
 GACTACGGGAGTTATGTGGAGTGTGGCCCGAGGATGTCCCTGTGTTCTGGCCATCTCCGCTGACCAAGTC  
 TGAAGAGCTCATCAGCTGCAAGGCTCATTGGCTTTCGCCAGCCCTCCAGGCTGCATGGTGATGGTCCC  
 GAAGGACACAGCGTCTTCAGCCAGTTGTCTGACTCCTGAGATGGTCCAGAAGTCCATGCCATTTCCAAA  
 GACCCTTTGCATTACAGCATAGTGTGACCCCTGCTGCTAAAAGGTCAGAGAGCTAGAGTCCACAATTG  
 CCGTAGACCCAGGGAACCGAGGAATCGGGCACCTACTACTTAAAGATGAGCTACTGCAAGCTGCTTTGTC  
 ACTGTCTCATGCCGCTCCGTAATCGTACCAGTGGATTCCCAACACATTTCAATCATGAGCCCCAGAA  
 GAGACAGATGGCCACCAGGAGCCATCGCCTTAGCTGCTTCCACAGGCTCTGGGAAGGAGACCGCCA  
 TGGTAGTAGACCAGAGCCTTGAAGTTCATATGAGGATTTGTTGAAGACGCCATTAGGCAAGGATTTCT  
 AAAGACACCGATTCCCATATTAACCTACCAAGGAAGATCCATGGAAGATGCTCGGGCATTGTTGTGCAAA  
 GATGGGGACCCTAAGTCTCCTAGATTTGACCATCTGGTGCCATAGAGCGTGCAGGGAAGGCTGCTGATG  
 GCAATTAACAACGCGAGGAAGATGAACATCAAACTTAGTTGACCCATTGATGACATTTTCTCTGCTGC  
 GCACAAAAGATTCTGGCATCTCACTGTTGGTGACGGAGGCAATGAGCTTGAATGGGCAAA  
 GTAAAGGCGGCCGTGAAGAAGCACATTAGAAATGGAGATGTCATTGCCTGTGATGTGGAGGCTGATTTG  
 CTGTATTGCCGGTGTTCCTAACTGGGGAGGCTACGCCCTGGCTGTGACTGTATATTCTGAACTCATG  
 TCAAGTCCATGAGCGCTACCTGAGGAGGCAACTGGACCTTCCAGGAGAGCTGGGAACAGAGCTGGATC  
 CAGGCCCTGCCATCTGTCTGCTAAGGAAGAAAAGATGTTGGGCATCTGGTAGAGAACCAAGTCCGCAGTG  
 GTGTCTCAGGCATCGTGGGCATGGAAGTGGATGGGCTGCCTTTCCATGACGTTTCTGCTGAGATGATCCG  
 GAAGCTGGTGGGTGCCACCACAGTGACAT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_145448
- Insert Size:** 1854 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_145448.4](#), [NP\\_663423.2](#)

**RefSeq Size:** 3229 bp

**RefSeq ORF:** 1854 bp

**Locus ID:** 217830

**UniProt ID:** [Q8BH86](#)

**Cytogenetics:** 12 E

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

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Both variants 2 and 3 encode the same isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.