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Product datasheet for MC219685

9030617O03Rik (NM_145448) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	9030617O03Rik (NM_145448) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	9030617O03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC219685 representing NM_145448
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCATCTCATTTCTCCTGAGGTCCTGTCTTCGCTCTGCTGTAAGGAGTCTACCCAAGGCAGCACTTA
TCAGAAACACTTCCAGCATGACGGAAGGACTCCAGCCGGCTAGTGTGGTGGTCCTGCCCAGATCCCTAGC
ACCAGCTTTTGAAAGCTTCTGCCAGGGCAACCGGGGTCCTCTGCCCCTCCTTGGACAAAGTGAGGCGGTG
AAGACACTCCCTCAGCTGAGCGCTGTTTCAGACATAAGGACCATCTGTCCACAGTTGCAGAAATACAAGT
TTGGCACCTGCACAGGCATCCTGACCTCACTGGAAGAGCACTCAGAACAACTAAAAGAAATGGTGACCTT
CATCATAGACTGCAGCTTCTCCATAGAAGAGGCCTTGGAGCAGGCAGGGATCCCCAGAAGAGACCTAACA
GGTCCCAGCCATGCAGGAGCATACAAGACAACAGTGCCCTGTGCCACCATTGCTGGCTTCTGCTGCCCTC
TGGTGGTCACAATGAGACCCATTCCCAAGGACAAGCTGGAAAGGCTGTTGCAGGCCACTCACGCCATAAG
AGGACAGCAAGGACAACCCATTCACATCGGTGACCCAGGTCTTTTGGGAATTGAGGCACTTTCCAAACCT
GACTACGGGAGTTATGTGGAGTGTCGGCCCGAGGATGTCCCTGTGTTCTGGCCATCTCCGCTGACCAGTC
TGGAAGCAGTCATCAGCTGCAAGGCTCCATTGGCTTTCGCCAGCCCTCCAGGCTGCATGGTGATGGTCCC
GAAGGACACAGCGTCTTCAGCCAGTTGTCTGACTCCTGAGATGGTTCCAGAAGTCCATGCCATTTCCAAA
GACCCTTTGCATTACAGCATAGTGTCAGCCCCTGCTGCTCAAAAGGTCAGAGAGCTAGAGTCCACAATTG
CCGTAGACCCAGGGAACCGAGGAATCGGGCACCTACTACTTAAAGATGAGCTACTGCAAGCTGCTTTGTC
ACTGTCTCATGCCCGCTCCGTACTCGTCACCACTGGATTCCCAACACATTTCAATCATGAGCCCCCAGAA
GAGACAGATGGCCCACCAGGAGCCATCGCCTTAGCTGCCTTCCTACAGGCTCTGGGGAAGGAGACCGCCA
TGGTAGTAGACCAGAGAGCCTTGAACTTGCATATGAGGATTGTTGAAGACGCCATTAGGCAAGGAGTTCT
AAAGACACCGATTCCCATATTAACTTACCAAGGAAGATCCATGGAAGATGCTCGGGCATTTTTGTGCAAA
GATGGGGACCCTAAGTCTCCTAGATTTGACCATCTGGTGGCCATAGAGCGTGCGGGAAGGGCTGCTGATG
GCAATTACTACAACGCGAGGAAGATGAACATCAAACACTTAGTTGACCCCATTGATGACATTTTCCTTGC
TGCACAAAAGATTCCTGGCATCTCATCAACTGGTGTTGGTGACGGAGGCAATGAGCTTGGAATGGGCAAA
GTAAAGGCGGCCGTGAAGAAGCACATTAGAAATGGAGATGTCATTGCCTGTGATGTGGAGGCTGATTTTG
CTGTCATTGCCGGTGTTTCTAACTGGGGAGGCTACGCCCTGGCCTGTGCACTGTATATTCTGAACTCATG
TCAAGTCCATGAGCGCTACCTGAGGAGGGCAACTGGACCTTCCAGGAGAGCTGGGGAACAGAGCTGGATC
CAGGCCCTGCCATCTGTCGCTAAGGAAGAAAAGATGTTGGGCATCCTGGTAGAGAACCAAGTCCGCAGTG
GTGTCTCAGGCATCGTGGGCATGGAAGTGGATGGGCTGCCTTTCCATGACGTTCATGCTGAGATGATCCG
GAAGCTGGTGGGTGCCACCACAGTGCACATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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.

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