

## Product datasheet for MR225822

### Ric3 (NM\_178780) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Ric3 (NM\_178780) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Ric3  
 Synonyms: E130307J04Rik  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR225822 representing NM\_178780  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTACTCCACGGTGCAGAGAGTGGCGCTGGCCTCGGGGCTCGTCCTGGCCGTGTCGCTGCTGCTGC  
 CCAAGGCCTTCTGTCTCGCGGAAGCGACCGGAGCCGCCCGGGCCCGGAAGGAAAATTGGACCGATT  
 TCCACCTATGATGCATCACCCTCGGCACCCTCAGATGGTCAGACACCAGGGGCTCGTTCCAGAGGTCT  
 CACCTTGCAGAGGCCTTTGCAAAGGCCAAGGGAGCAGGTGGAGGTGCTGGAGGAGGGGTAGTGGAAAG  
 GACTGATGGGCCAGATCATTCCAATCTATGGCTTTGGGATCTTTTGTACATACTGTACATTTTGTAA  
 GCTTTCAAAGGGGAAAAGTGCAGAGGATCGGAAGTGTCCACTGCCCCACCTGGAACGCCACAGGAAG  
 ATTACCACTTTGAGCTTGTCAACTACAAGAAAAGTAAAAGAGACAGAAGAAGCCATGGAAAAATTAA  
 TCAACAGAGTTGGACCTAATGGTGAAGCAGAGCACAGGCTGTGACTTCTGACCAAGAGAAACGATTACT  
 GCATCAGCTCCGAGAAATCACCAGGGTCATGAAAGAAGGCAAGTTCATCGACACATCTCCAGAGAAGGAA  
 GCTGAGGAAGCCCCATACATGGAGGACTGGGAAGTAAAATGCCCTTCTTGT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAAAGTCACTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR225822 representing NM\_178780  
Red=Cloning site Green=Tags(s)

MAYSTVQRVALASGLVLAVSLLLKPAFLSRGKRPEPPPPEGKLD RFPMMHHSAPSDGQTPGARFQRS  
 HLAFAFAKAKGAGGGAGGGGSGRGLMGQIIPYGFIFLYILYILFKLSKGKTAEDRNCSTAPPGNAHRK  
 ITNFELVQLQEKLKETEEAMEKLINRVGPNGESRAQAVTSDQEKRLHLQLREITRVMKEGKFIDTSPEKE  
 AEEAPYMEDWEGKMPLPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_178780

**ORF Size:** 684 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\\_178780.3](#), [NP\\_848895.2](#)

**RefSeq Size:** 1920 bp

**RefSeq ORF:** 687 bp

**Locus ID:** 320360

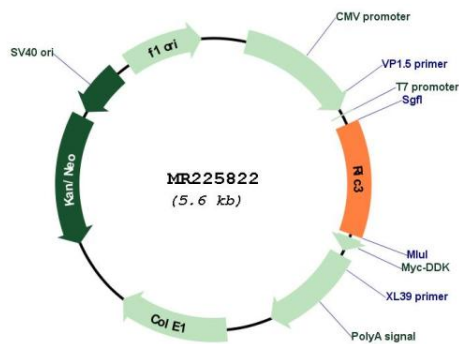
**UniProt ID:** [Q8BPM6](#)

**Cytogenetics:** 7 E3

**MW:** 25.4 kDa

**Gene Summary:** Promotes functional expression of homomeric alpha-7 and alpha-8 nicotinic acetylcholine receptors at the cell surface. May also promote functional expression of homomeric serotonergic 5-HT3 receptors, and of heteromeric acetylcholine receptors alpha-3/beta-2, alpha-3/beta-4, alpha-4/beta-2 and alpha-4/beta-4.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225822