

Product datasheet for **MG225822**

Ric3 (NM_178780) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ric3 (NM_178780) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ric3
Synonyms: E130307J04Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225822 representing NM_178780
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTACTCCACGGTGCAGAGAGTGGCGCTGGCCTCGGGGCTCGTCCTGGCCGTGTCGCTGCTGCTGC
CCAAGGCCTTCTGTCTCGCGGAAGCGACCGGAGCCGCCCGGGCCCGGAAGGAAAATTGGACCGATT
TCCACCTATGATGCATCACCCTCGGCACCCTCAGATGGTCAGACACCAGGGGCTCGTTCCAGAGGTCT
CACCTTGCAGAGGCCTTTGCAAAGGCCAAGGGAGCAGGTGGAGGTGCTGGAGGAGGGGTAGTGGAAAG
GACTGATGGGCCAGATCATTCCAATCTATGGCTTTGGGATCTTTTGTACATACTGTACATTTTGTAA
GCTTTCAAAGGGGAAAAGTGCAGAGGATCGGAAGTGTCCACTGCCCCACCTGGAACGCCACAGGAAG
ATTACCACTTTGAGCTTGTCAACTACAAGAAAAGTAAAAGAGACAGAAGAAGCCATGGAAAAATTAA
TCAACAGAGTTGGACCTAATGGTGAAGCAGAGCACAGGCTGTGACTTCTGACCAAGAGAAACGATTACT
GCATCAGCTCCGAGAAATCACCAGGTCATGAAAGAAGGCAAGTTCATCGACACATCTCCAGAGAAGGAA
GCTGAGGAAGCCCCATACATGGAGGACTGGGAAGTAAAATGCCCTTCTTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225822 representing NM_178780
 Red=Cloning site Green=Tags(s)

MAYSTVQRVALASGLVLAVSLLLKPAFLSRGKRPEPPPPEGKLD RFPMMHHSAPSDGQTPGARFQRS
 HLAEAF AKAKGAGGGAGGGSGRGLMGQIIPIYGF GIFYLYILFKLSKGKTAEDRNCSTAPPGNAHRK
 ITNFELVQLQEKLKETEEAMEKLINRVGPNGESRAQAVTSDQEKRL LHQLREITRVMKEGKFIDTSPEKE
 AEEAPYMEDWEGKMPLPC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

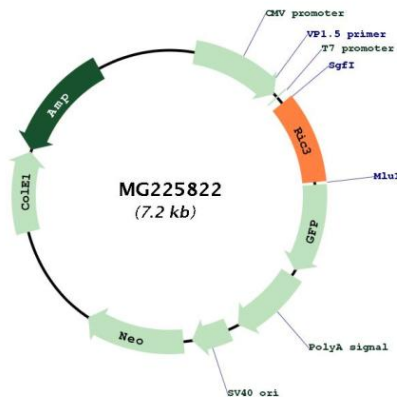
Locus ID: 320360

UniProt ID: [Q8BPM6](#)

Cytogenetics: 7 E3

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 MG225822