

## Product datasheet for **RC233894**

### RIC3 (NM\_001206671) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RIC3 (NM\_001206671) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RIC3  
**Synonyms:** AYST720; PRO1385  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233894 representing NM\_001206671  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGTACTCCACAGTGCAGAGAGTCGCTCTGGCTTCTGGGCTTGTCTGGCTCTGTCGCTGCTGCTGC  
CCAAGGCCTTCTGTCCCGCGGGAAGCGGCAGGAGCCGCCCGCACCTGAAGGAAAATGGGCCGATT  
TCCACCTATGATGCATCACCAGGCACCCTCAGATGGCCAGACTCCTGGGCTCGTTCCAGAGGTCT  
CACCTTGCCGAGGCATTTGCAAAGGCCAAAGGATCAGGTGGAGGTCTGGAGGAGGAGGTAGTGAAGAG  
GTCTGATGGGGCAGATTATTCCAATCTACGGTTTTGGGATTTTTTATATACTGTACATTCTATTTAA  
GCTCTCAAAGGGGAAAACAAGTGCAGAGGATGGGAAATGCTATACTGCCATGCCTGGAAACCCACAGG  
AAAATTACCAGTTTTGAGCTTGCTCAACTGCAAGAAAAGTGAAGGAGACAGAAGCAGCCATGGAAAAAT  
TAATCAACAGAGTGGGACCTAATGGTGAGAGCAGAGCACAGACTGTGACTTCTGACCAAGAGAAACGGTT  
GCTACATCAGCTCCGAGAAATCACCAGGGTCATGAAAGAAGGAAAATTCATTGACAGATTTCTCCAGAG  
AAAGAAGCTGAGGAGGCCCTTACATGGAGGACTGGGAAGGTTACCCTGAAGAGACTTACCAATTTATG  
ACCTTTCAGACTGTATCAAGCGTAGGCAAGAAAACAATCTTGGTGGATTACCCTGACCCAAAAGAACCTTC  
TGCTGAAGAAATAGCTGAAAGAATGGGAATGATAGAAGAGGAAGAATCAGATCATTTGGGTTGGGAAAGT  
CTGCCACTGACCCAGAGCCAGGAAGATAATTCTGTTACCTCGTGTGATCCAAAGCCAGAACATGTT  
CCTGCTGTTTTTCATGAAGACGAGGATCCTGCTGTCTTGGCAGAGAATGCTGGATTCAAGTGCAGATAGCTA  
CCCTGAGCAAGAGGAAACCACCAAGAAGAGTGGTCCCAAGACTTTAAAGATGAAGGGTTGGGCATCAGC  
ACCGATAAAGCATATACAGGCAGCATGCTGAGGAAGCGTAACCCCGAGGTTTAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233894 representing NM\_001206671  
Red=Cloning site Green=Tags(s)

MAYSTVQRVALASGLVLALLPKAFLSRGKRQEPPTPEGKLRFPMMHHHQAPSDGQTPGARFQRS  
 HLAEAFAKAKGSGGGAGGGGSGRGLMGQIIPYGFIFLYILYILFKLSKGKTTAEDGKCYTAMPGNTHR  
 KITSFELAQLEKLETAAMEKLINRVGPNGESRAQVTSQEKRLHLQREITRVMKEGKFIIDRF SPE  
 KEAEEAPYMEDWEGYPEETYPIYDLSDCIKRRQETILVDYDPKELSAEEIAERMGMIEEEESDHLGWES  
 LPTDPRAQEDNSVTSCDPKPETSCCCFHEDEDPAVLAENAGFSADSYPEQEETTKEEWSQDFKDEGLGIS  
 TDKAYTGSMLRKRNPQGLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001206671

**ORF Size:** 1107 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\\_001206671.4](#)

**RefSeq Size:** 5830 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 79608

**UniProt ID:** [Q7Z5B4](#)

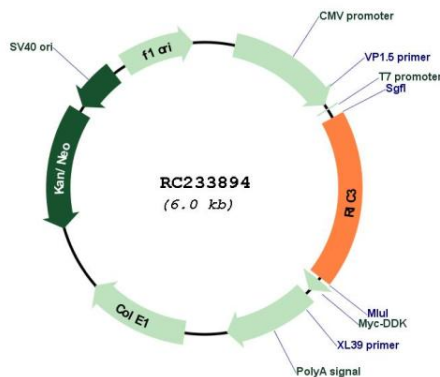
**Cytogenetics:** 11p15.4

**Protein Families:** Transmembrane

**MW:** 41.5 kDa

**Gene Summary:** This gene encodes a member of the resistance to inhibitors of cholinesterase 3-like family which functions as a chaperone of specific 5-hydroxytryptamine type 3 receptor and nicotinic acetylcholine receptor subtypes. The encoded protein influences the folding and assembly of these receptor subunits in the endoplasmic reticulum and expression on the cell surface. This protein contains an N-terminal transmembrane domain, a proline-rich spacer, and a cytosolic C-terminal coiled-coil domain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

**Product images:**



Circular map for RC233894