

## Product datasheet for **RG205179**

### RIC3 (NM\_024557) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RIC3 (NM_024557) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIC3
Synonyms:	AYST720; PRO1385
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205179 representing NM_024557 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTACTCCACAGTGCAGAGAGTCGCTCTGGCTTCTGGGCTTGTCTGGCTCTGTCTGGCTGCTGCTGC  
CCAAGGCCTTCTGTCCCGCGGGAAGCGGCAGGAGCCGCCCGCACCTGAAGGAAAATTGGGCCGATT  
TCCACCTATGATGCATCATCACCAGGCACACTCAGATGGCCAGACTCCTGGGGCTCGTTCCAGAGGTCT  
CACCTTGCCGAGGCATTTGCAAAGGCCAAAGGATCAGGTGGAGGTGCTGGAGGAGGAGGTAGTGGAAAG  
GTCTGATGGGGCAGATTATCCGATCTACGGTTTTGGGATTTTTTATATACTGTACATTCTATTTAA  
GCTCTCAAAGGGGAAAACAAGTGCAGAGGATGGGAAATGCTATACTGCCATGCCTGGAAACCCACAGG  
AAAATTACCAGTTTTGAGCTTGCTCAACTGCAAGAAAACTGAAGGAGACAGAAGCAGCCATGGAAAAAT  
TATTCAACAGAGTGGGACCTAATGGTGAGAGAGCACAGACTGTGACTTCTGACCAAGAGAAAACGGTTGCT  
ACATCAGCTCCGAGAAATCACCAGGGTCATGAAAGAAGGAAAATTCATTGACAGATTTTCTCCAGAGAAA  
GAAGCTGAGGAGGCCCTTACATGGAGGACTGGGAAGTTACCCTGAAGAGACTTACCCAATTTATGACC  
TTTCAGACTGTATCAAGCGTAGGCAAGAAACAATCTTGGTGGATTACCCTGACCCAAAAGAACTTTCTGC  
TGAAGAAATAGCTGAAAGAATGGGAATGATAGAAGAGGAAGAATCAGATCATTGGGTTGGGAAAGTCTG  
CCCCTGACCCAGAGCCAGGAAGATAATTCTGTTACCTCGTGTGATCCAAAGCCAGAAACATGTTCCCT  
GCTGTTTTTATGAAGACGAGGATCCTGCTGCTTGGCAGAGAATGCTGGATTTCAGTGCAGATAGCTACCC  
TGAGCAAGAGGAAACCACCAAGAGAGTGGTCCCAAGACTTTAAAGATGAAGGGTTGGGCATCAGCACA  
GATAAAGCATATACAGGCAGCATGCTGAGGAAGCGTAACCCCGGGTTTAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205179 representing NM\_024557  
 Red=Cloning site Green=Tags(s)

MAYSTVQRVALASGLVLALLPKAFLSRGKRQEPPTPEGKLRFPMMHHHQAHSDDGQTPGARFQRS  
 HLAEAF AKAKGSGGGAGGGGSGRGLMGQIIPYIGFIFLYILYILFKLSKGKTTAEDGKCYTAMPGNTHR  
 KITSFELAQLEKLEKETAAMEKLFNRVGPNGERAQTVTSDQEKRLHQLREITRVMKEGKFIDRF SPEK  
 EAEAPYMEDWEGYPEETYPYIDLSDCIKRRQETILVDYDPKELSAEEIAERMGMIEEEESDHLGWESL  
 PTDPRAQEDNSVTSCDPKPETCSCCFHEDEDPAVLAENAGFSADSYPEQEETTKEEWSQDFKDEGLGIST  
 DKAYTGSMLRKRNPQGLE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024557

**ORF Size:** 1104 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\\_024557.2](#), [NP\\_078833.2](#)

**RefSeq Size:** 2907 bp

**RefSeq ORF:** 1107 bp

**Locus ID:** 79608

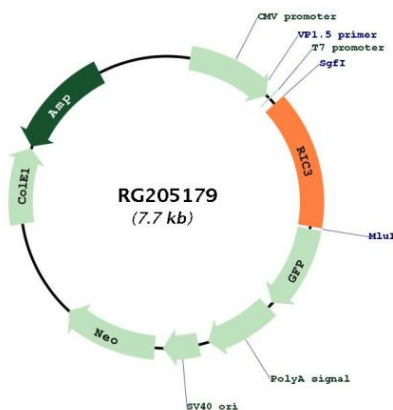
**UniProt ID:** [Q7Z5B4](#)

**Cytogenetics:** 11p15.4

**Protein Families:** Transmembrane

**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 RG205179