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Product datasheet for RC225201

RIC3 (NM_001135109) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIC3 (NM_001135109) 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:

>RC225201 representing NM_001135109
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTACTCCACAGTGCAGAGAGTCGCTCTGGCTTCTGGGCTTGTCCTGGCTCTGTCGCTGCTGCTGC
CCAAGGCCTTCCTGTCCCGCGGGAAGCGGCAGGAGCCGCCGCCGACACCTGAAGGTTACCCTGAAGAGAC
TTACCCAATTTATGACCTTTCAGACTGTATCAAGCGTAGGCAAGAAACAATCTTGGTGGATTACCCTGAC
CCAAAAGAACTTTCTGCTGAAGAAATAGCTGAAAGAATGGGAATGATAGAAGAGGAAGAATCAGATCATT
TGGGTTGGGAAAGTCTGCCCACTGACCCCAGAGCCCAGGAAGATAATTCTGTTACCTCGTGTGATCCAAA
GCCAGAAACATGTTCCTGCTGTTTTCATGAAGACGAGGATCCTGCTGTCTTGGCAGAGAATGCTGGATTC
AGTGCAGATAGCTACCCTGAGCAAGAGGAAACCACCAAAGAAGAGTGGTCCCAAGACTTTAAAGATGAAG
GGTTGGGCATCAGCACCGATAAAGCATATACAGGCAGCATGCTGAGGAAGCGTAACCCCCAGGGTTTAGA
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225201 representing NM_001135109
Red=Cloning site Green=Tags(s)

MAYSTVQRVALASGLVLALSLLLPKAFLSRGKRQEPPPTPEGYPEETYPIYDLSDCIKRRQETILVDYPD
PKELSAEEIAERMGMIEEEESDHLGWESLPTDPRAQEDNSVTSCDPKPETCSCCFHEDEDPAVLAENAGF
SADSYPEQEETTKEEWSQDFKDEGLGISTDKAYTGSMLRKRNPQGLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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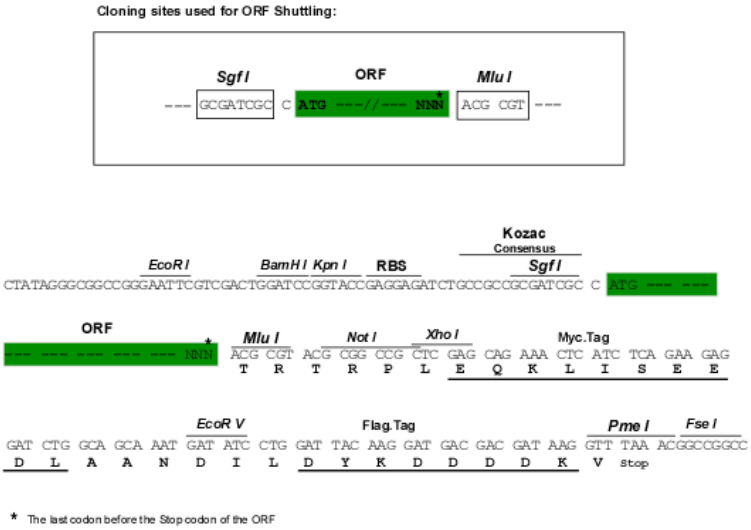
Chromatograms: https://cdn.origene.com/chromatograms/ja1857_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135109

ORF Size: 561 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

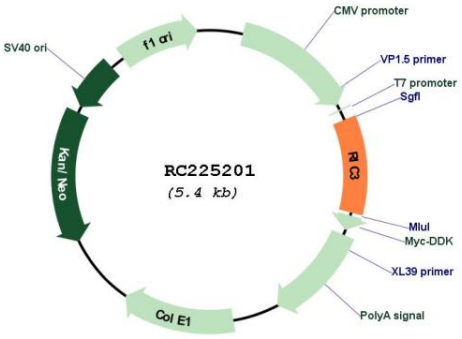
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

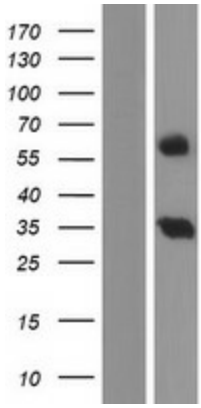
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001135109.4
RefSeq Size:	5284 bp
RefSeq ORF:	564 bp
Locus ID:	79608
UniProt ID:	Q7Z5B4
Cytogenetics:	11p15.4
Protein Families:	Transmembrane
MW:	21 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 RC225201



Western blot validation of overexpression lysate (Cat# [LY427555]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).