

## Product datasheet for **RG200429**

### RCN2 (NM\_002902) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RCN2 (NM_002902) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RCN2
Synonyms:	E6BP; ERC-55; ERC55; TCBP49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200429 representing NM_002902 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCTGGGCCGAGGACCGCGGCGTTGGGGCTGCTGCTGTGCGCCGCCGCGGCCGGCGCCGGCA  
AGGCCGAGGAGCTGCACTACCCGCTGGGCGAGCGCCGAGCGACTACGACCGGAGGCGCTGCTGGGCGT  
CCAGGAAGATGTGGATGAATATGTTAACTCGGCCACGAAGAGCAGCAAAAAAGACTGCAGGCGATCATA  
AAGAAAATCGACTTGACTCAGATGGCTTCTCACTGAAAGTGAAGTCACTGATTCATGGATTCAGATGCTT  
TTAAGCATTATGCTATGCAAGAAGCAAAACAACAGTTTGTGAATATGATAAAAAACAGTATGATACTGT  
GACTTGGGATGAATATAACATTCAGATGTATGATCGTGTGATTGACTTTGATGAGAACACTGCTCTGGAT  
GATGCAGAAGAGGAGTCTTTAGGAAGCTTCACTTAAAGGACAAGAAGCGATTTGAAAAAGCTAACCAGG  
ATTCAGGTCCCGGTTTGAGTCTTGAAGAATTTATTGCTTTTGGAGCATCCTGAAGAAGTTGATTATATGAC  
GGAATTTGTCAATCAAGAAGCTTTAGAAGAATGACAAAAATGGTGTGGATTTGTTAGTTTGAAGAA  
TTTCTTGGTGATTACAGGTGGGATCCAATGCAATGAAGATCCAGAATGGATACTTGTGAGAAAGACA  
GATTCGTGAATGATTATGACAAAGATAACGATGGCAGGCTTGATCCCAAGAGCTGTTACCTTGGGTAGT  
ACCTAATAATCAGGGCATTGCACAAGAGGAGGCCTTCACTAATTGATGAAATGGATTTGAATGGTGAC  
AAAAAGCTCTCTGAAGAAGAGATTCTGGAAAACCCGACTTGTCTCACCAGTGAAGCCACAGATTATG  
GCAGACAGCTCCATGATGACTATTTCTATCATGATGAGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200429 representing NM\_002902  
 Red=Cloning site Green=Tags(s)

MRLGPRTAALGLLLLCAAAGAGKAEELHYPLGERRSYDREALLGVQEDVDVEYVKLGHEEQKRLQAI  
 KKIDLDSGFLTESESSWIQMSFKHYAMQEAKQFVEYDKNSDDTWTWDEYNIQMYDRVIDFDENTALD  
 DAEEESFRKHLKDKRFEKANQDSGGLSLEEFIAFEHPPEEVDYMTFVIQEAL EEHDKNGDGFVSLEE  
 FLGDYRWDPTANEDPEWILVEKDRFVNDYDKDNDGRDPQELLPWVVPNNQGI AQEEALHLIDEMDLNGD  
 KKLSEEEILENPDLFLTSEATDYGRQLHDDYFYHDEL

TRTRPLE - GFP Tag - V

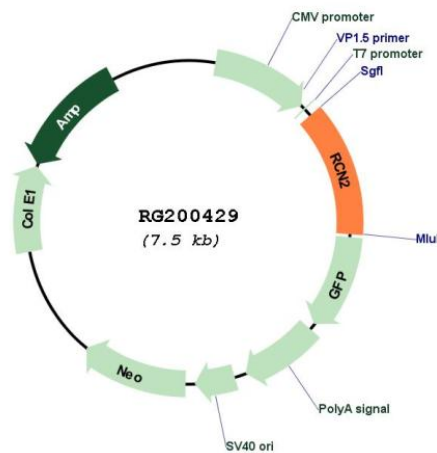
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_002902

**ORF Size:** 951 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002902.1</a> , <a href="#">NP_002893.1</a>
<b>RefSeq Size:</b>	1700 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	5955
<b>UniProt ID:</b>	<a href="#">Q14257</a>
<b>Cytogenetics:</b>	15q24.3
<b>Domains:</b>	EFh
<b>Gene Summary:</b>	The protein encoded by this gene is a calcium-binding protein located in the lumen of the ER. The protein contains six conserved regions with similarity to a high affinity Ca(+2)-binding motif, the EF-hand. This gene maps to the same region as type 4 Bardet-Biedl syndrome, suggesting a possible causative role for this gene in the disorder. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2012]