

## Product datasheet for **SC336638**

### **RIC8 (RIC8A) (NM\_001286134) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIC8 (RIC8A) (NM_001286134) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIC8A
Synonyms:	RIC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336638 representing NM\_001286134.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

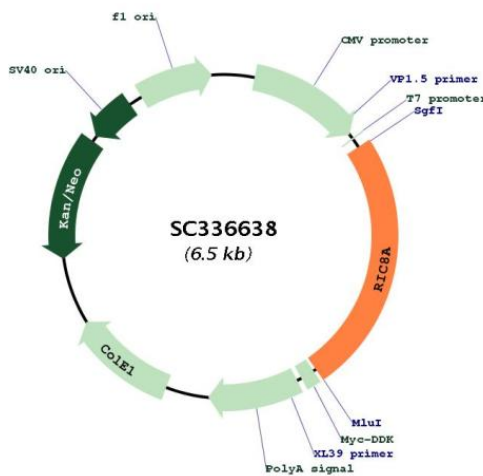
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GTCCGAATCCTGTCCCGGACCGCAACTGCCTGGACCCGTTACCAGCCGCCAGAGCCTGCAGGCACTA
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**Restriction Sites:**

Sgfl-Mlul

**Plasmid Map:**



<b>ACCN:</b>	NM_001286134
<b>Insert Size:</b>	1596 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001286134.1</a>
<b>RefSeq Size:</b>	3765 bp
<b>RefSeq ORF:</b>	1596 bp
<b>Locus ID:</b>	60626
<b>UniProt ID:</b>	<a href="#">Q9NPO8</a>
<b>Cytogenetics:</b>	11p15.5
<b>MW:</b>	59.7 kDa
<b>Gene Summary:</b>	<p>Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>