

## Product datasheet for **SC313904**

### **RIC8 (RIC8B) (NM\_018157) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIC8 (RIC8B) (NM_018157) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIC8
Synonyms:	hSyn; RIC8
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_018157 edited  
 ATGGATGAGGAGCGCCCTCTACATCGTCCGGGCCGGCGAAGCAGGGGCTATCGAGCGG  
 GTCCTGAGGGATTACAGCGACAAGCATAGGGCTACTTTCAAATTTGAATCAACAGATGAA  
 GATAAAGAAAGAAACTCTGTGAAGGCATATTTAAAGTCTTATAAAGGACATCCCAACA  
 ACATGTCAAGTGTCTGCCTGGAAGTACTCCGCATTCTCTCCAGAGACAAAAAGGTTTTA  
 GTTCTGTGACAACCTAAGGAAAAATGCAGATACTGCTGCGACTAGCCAAGCTAAATGAG  
 TTAGATGATTCTTTGGAGAAAGTATCAGAGTTCAGTATTGTTGGAGTCATTAATGAT  
 CTGTGTAATATAGTGTTCACAGTCAGATGGCACAGCAGCTCAGCCTGGAACTTAATCTT  
 GCTGCAAAGCTCTGTAACCTCCTGAGAAAAGTGCAAGGACCGGAAATTTATCAATGACATT  
 AAGTGCTTTGACTTGGCCTTGTCTTCTGTCACTTTTGCACACCGACATCAGGTCA  
 CAATTGCGCTATGAGCTCCAGGGACTACCGCTGCTAACGCAGATCTTGGAAAGTGCCCTT  
 AGCATCAAGTGGACCGATGAGTATGAATCGGCCATAGACCATAATGGACCTCCTCTCTCA  
 CCTCAGGAGACAGACTGTGCCATTGAGGCCCTCAAAGCTCTTCAATGTGACGGTAGAC  
 AGTTGGAAGGTGCATAAAGAGAGTGATTCTCATCAGTTCGTGTAATGGCAGCTGTCCTT  
 CGTCATTGTTTACTAATCGTAGGTCCAAGTGAAGACAAAACAGAAGAGCTACACAGCAAT  
 GCAGTCAACCTTTAAGCAATGTCCAGTCTCTGTTTGGATGTTCTATTTGTCCGTTA  
 ACCCATGAAGAAACAGCCCAAGAGGCAACGACTCTAGATGAACTGCCAGTAATAAAACA  
 GCTGAGGAAGAAACAGTTTTGAAAAACAATACCATGGTATACAATGGTATGAATATGGAG  
 GCCATTGATGTTTTACTGAATTTTATGGAGAAGAGAATAGACAAGGGAAGCAGCTATAGA  
 GAGGGTCTAACTCCAGTTCTCAGCTTATTAACCGAATGTTCCCGAGCCATCGAAACATC  
 CGAAAAATTTCTCAAAGATCAGGTTTTACCACCGTTGAGGGATGTGACAAATCGACCTGAA  
 GTTGGCTCAACTGTGAGAAATAAGCTGGTGCCTCATGACACATGTTGACCTTGGAGTC  
 AAGCAAATTTGCTGCTGAATTCCTTTTGTCTTTGCAAAGAGAGAGTGGATAGTCTGCTG  
 AAATACACTGGCTATGGGAATGCTGCAGACTGTTGGCGGCCAGGGCCCTTTGGCTGGA  
 GGAAAGAGGAGATAATTGGTACTCAGAGGATGAGGACACAGACACTGAAGAATACAAAAAT  
 GCAAAACCAAAAGAGGAGTTGCTTAAACCAATGGGACTAAAACCTGATGGGACAATAACG  
 CCTTTGGAGGAAGCACTCAACAGTACTCTGTCATCGAAGAGACCAGCTCTGACACAGAC  
 TAA

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_018157

**Insert Size:** 5000 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a good match to NM\_018157.1 except one SNP.

**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\\_018157.1](#), [NP\\_060627.1](#)

**RefSeq Size:** 3389 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 55188

**UniProt ID:** [Q9NVN3](#)

**Cytogenetics:** 12q23.3

**Gene Summary:** Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins by exchanging bound GDP for free GTP. Able to potentiate G(olf)-alpha-dependent cAMP accumulation suggesting that it may be an important component for odorant signal transduction.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (4) 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.