

## Product datasheet for **RC237068**

### **TSGA2 (RSPH1) (NM\_001286506) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSGA2 (RSPH1) (NM\_001286506) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RSPH1  
**Synonyms:** CT79; RSP44; RSPH10A; TSA2; TSGA2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237068 representing NM\_001286506  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCGGACCTGGGCTCGGAGGAGTTGGAGGAGGAGGAGAGAATGATATTGGGGGGATCTACAAATTTA  
AAAATGGTGCTCGATATATCGGAGAATATGTTAGAAAATAAAAAGCACGGTCAAGGCACCTTTATATATCC  
AGATGGATCCAGATATGAAGGAGAGTGGCAAATGACCTGCGGCACGGCCATGGCGTATACTACTACATC  
AATAATGACACCTACACTGGAGAGTGGTTTGCTCATCAAAGGCATGGGCAAGGCACCTATTTATACGCGG  
AGACGGGCAGTAAGTATGTTGGCACCTGGGTGAACGGACAGCAGGAGGGCACGGCCGAGCTCATTACCT  
GAACCACAGGTACCAGGGCAAGTTCTTGAACAAAAATCCTGTTGGCCCTGGAAAGTATGTATTTGATGTT  
GGGTGTGAACAACATGGTGAATATCGTTTAAACAGATATGGAAAGAGGAGAAGAGGAAGAGGAGGAAGAAT  
TAGTAACTGTTGTTCCAAAATGGAAAGCTACCCAAATCACTGAATTGGCCCTGTGGACACCAACTCTCC  
CAAAAAGCCGACCTCTACGGATGGACCTGGCCAAGACGCTCCAGGAGCTGAGAGTGCAGGAGAACCCGGG  
GAGGAGGCCAGGCTCTGCTGGAGGGCTTCGAGGGTGAGATGGACATGAGGCCTGGAGATGAAGATGCAG  
ACGTCTCCGGGAAGAGAGCCGGGAGTATGACCAGGAGGATTCGCTATGACATGGATGAGGGAACAT  
TAATTCTGAAGAAGAAGAACTAGACAGTCAGACCTCCAGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237068 representing NM\_001286506  
 Red=Cloning site Green=Tags(s)

MSDLGSEEEEEENDIGGIYKFKNGARYIGEYVRNKKHGQGTFIYPDGSRYEGEWANDLRHGHVYYYYI  
 NNDTYTGEWFAHQRHGQGTYL YAETGSKYVGTWVNGQQEGTAE L IHLNHR YQGF L NKNPVGPKYVFDV  
 GCEQHGEYRLTDMERGEEEEEELVTVVPKWKATQITELALWPTLPKPTSTDGPGQDAPGAESAGEPG  
 EEAQALLEGFEGEMDRPGDEDADVLREESREYDQEEFRYDMDEGNINSEEEETRQSDLQD

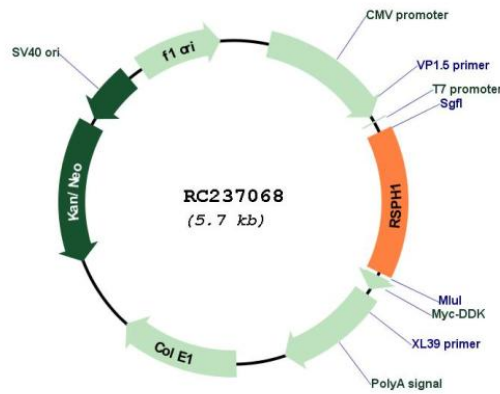
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001286506  
**ORF Size:** 813 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_001286506.2</a>
<b>RefSeq Size:</b>	1331 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	89765
<b>UniProt ID:</b>	<a href="#">Q8WYR4</a>
<b>Cytogenetics:</b>	21q22.3
<b>MW:</b>	31.3 kDa
<b>Gene Summary:</b>	This gene encodes a male meiotic metaphase chromosome-associated acidic protein. This gene is expressed in tissues with motile cilia or flagella, including the trachea, lungs, airway brushings, and testes. Mutations in this gene result in primary ciliary dyskinesia-24. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]