

## Product datasheet for **RG210926**

### TSGA2 (RSPH1) (NM\_080860) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSGA2 (RSPH1) (NM\_080860) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TSGA2  
**Synonyms:** CT79; RSP44; RSPH10A; TSA2; TSGA2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210926 representing NM\_080860  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGACCTGGGCTCGGAGGAGTTGGAGGAGGAGGAGAGAATGATATTGGGGAATAGAGGGGGT  
 GGAATGAGGCAGGCGAAAGGCACGGACGTGGGAGGGCACGGCTACCAACGGGGACCTACGAAGGAG  
 CTACGAATTCGGTAAAAGACATGGCCAGGGGATCTACAAATTTAAAAATGGTGTCTGATATATCGGAGAA  
 TATGTTAGAAATAAAAAGCACGGTCAAGGCACTTTTATATATCCAGATGGATCCAGATATGAAGGAGAGT  
 GGGCAAAATGACCTGCGGCACGGCCATGGCGTATACTACTACATCAATAATGACACCTACACTGGAGAGTG  
 GTTTGCTCATCAAAGGCATGGGCAAGGCACCTATTTATACGCGGAGACGGGCAGTAAGTATGTTGGCACC  
 TGGGTGAACGGACAGCAGGAGGGCACGGCCGAGCTCATTACCTGAACCACAGGTACCAGGGCAAGTTCT  
 TGAACAAAAATCCTGTTGGCCCTGGAAAGTATGTATTTGATGTTGGGTGTGAACAACATGGTGAATATCG  
 TTTAACAGATATGGAAAGAGGAGAAGAGGAAGAGGAGGAAGAATTAGTAAGTGTGTTCCAAAATGGAAA  
 GCTACCAAAATCACTGAATTGGCCCTGTGGACCAACTCTCCCAAAAAGCCGACCTCTACGGATGGAC  
 CTGGCCAAGACGCTCCAGGAGCTGAGAGTGCAGGAGAACCAGGGAGGAGGCCAGGCTCTGCTGGAGGG  
 CTTTCGAGGGTGAATGGACATGAGGCCTGGAGATGAAGATGCAGACGCTCTCCGGGAAGAGAGCCGGGAG  
 TATGACCAGGAGGAGTTCCGCTATGACATGGATGAGGGAACATTAATTCTGAAGAAGAAGAACTAGAC  
 AGTCAGACCTCCAGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210926 representing NM\_080860  
 Red=Cloning site Green=Tags(s)

MSDLGSEEEEEEGENDIGEYEGGRNEAGERHGRGRARLPNGDTYEGSYEFGKRHGQGIYKFKNGARYIGE  
 YVRNKKHGQGTFIYPDGSRYEGEWANDLRHGHGVYYYINNDTYTGEWFAHQRHGQGTLYAETGSKYVGT  
 WYNGQQEGTAELIHLNHRYYQKFLNKNPVGPKYVFDVGCEQHGEYRLTDMERGEEEEEELVTVPKWK  
 ATQITELALWPTLPKKPTSTDGPGQDAPGAESAGEPGEAAQALLEGFEGEMDMRPGDEDADVLREESRE  
 YDQEEFRYDMDEGNINSEEEETRQSDLQD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080860

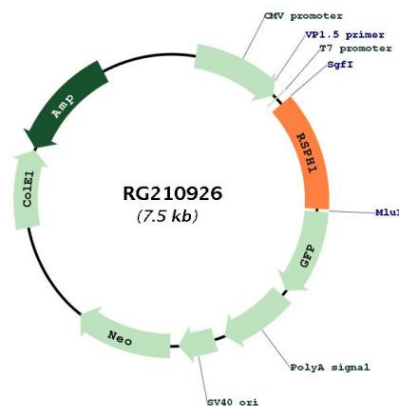
**ORF Size:** 927 bp

**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](mailto: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.

<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>	<u><a href="#">NM_080860.4</a></u>
<b>RefSeq Size:</b>	1382 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	89765
<b>UniProt ID:</b>	<u><a href="#">Q8WYR4</a></u>
<b>Cytogenetics:</b>	21q22.3
<b>Gene Summary:</b>	<p>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]</p>

**Product images:**


Circular map for RG210926