

## Product datasheet for **RG207076**

### SP17 (SPA17) (NM\_017425) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** SP17  
**Synonyms:** CT22; SP17; SP17-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >RG207076 representing NM\_017425  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCGATTCCATTCTCCAACCCCACTACCGAATTCACAAGGATTTGGGAATCTTCTTGAAGGGCTGA  
CACGCGAGATTCTGAGAGAGCAACCGGACAATATACCAGCTTTTGCAGCAGCCTATTTTGAAGCCTTCT  
AGAGAAAAGAGAGAAAACCACTTTGATCCAGCAGAAATGGGGGAGTAAGGTAGAAGACCGCTTCTATAAC  
AATCATGCATTCGAGGAGCAAGAACCACCTGAGAAAAGTGATCCTAAACAAGAAGAGTCTCAGATATCTG  
GGAAGGAGGAAGAGACATCAGTCACCATCTTAGACTCTTCTGAGGAAGATAAGGAAAAAGAGAGGTTGC  
TGCTGTCAAAATCCAAGCTGCCTTCGGGGACACATAGCCAGAGAGGAGGCAAAAGAAATGAAAACAAAT  
AGTCTTCAAAATGAGGAAAAAGAGGAAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207076 representing NM\_017425  
Red=Cloning site Green=Tags(s)

MSIPFSNTHYRIPQGFNLLLEGLTREILREQPDNIPAFAAAYFESLLEKREKTNFDPAEWGSKVEDRFYN  
NHAFEEQEPPEKSDPKQEEESQISGKEETSVTILDSSEEDKEKEEVAVKIQAAFRGHIAREEAKMKTN  
SLQNEEKEENK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:



**ACCN:** NM\_017425

**ORF Size:** 453 bp

**OTI Disclaimer:** 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.

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_017425.4](#)

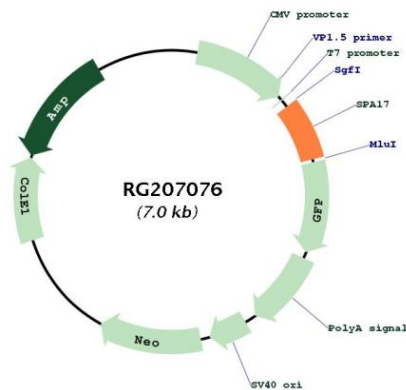
RefSeq Size: 954 bp  
 RefSeq ORF: 456 bp  
 Locus ID: 53340

UniProt ID: [Q15506](#)

Cytogenetics: 11q24.2

**Gene Summary:** This gene encodes a protein present at the cell surface. The N-terminus has sequence similarity to human cAMP-dependent protein kinase A (PKA) type II alpha regulatory subunit (RIIa) while the C-terminus has an IQ calmodulin-binding motif. The central portion of the protein has carbohydrate binding motifs and likely functions in cell-cell adhesion. The protein was initially characterized by its involvement in the binding of sperm to the zona pellucida of the oocyte. Recent studies indicate that it is also involved in additional cell-cell adhesion functions such as immune cell migration and metastasis. A retrotransposed pseudogene is present on chromosome 10q22.[provided by RefSeq, Jan 2009]

### Product images:



Circular map for RG207076