

## Product datasheet for RC204174

### SPAG7 (NM\_004890) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG7 (NM_004890) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPAG7
Synonyms:	ACRP; FSA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204174 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCGGACCTACTGGGCTCCATCCTGAGCTCCATGGAGAAGCCACCCAGCCTCGGTGACCAGGAGACTC  
 GGCGCAAGGCCGAGAACAGGCCGCCCGCCTGAAGAACTACAAGAGCAAGAGAAACAACAGAAAGTGA  
 GTTTCGTAAAAGGATGGAGAAGGAGGTGTCAGATTTCAATCAAGACAGTGGGCAGATCAAGAAAAAGTTT  
 CAGCCAATGAACAAGATCGAGAGGAGCATACTACATGATGTGGTGAAGTGGCTGGCCTGACATCCTTCT  
 CCTTTGGGAAGATGATGACTGTCGCTATGTCATGATCTTCAAAAAGGAGTTTGACCCCTCAGATGAAGA  
 GCTAGACTCTTACCGTCGTGGAGAGGAATGGGACCCCAAGGCTGAGGAGAAGCGGAAGCTGAAGGAG  
 CTGGCCCAGAGGCAAGAGGAGGAGGCAGCCAGCAGGGGCTGTGGTGGTGAAGCCCTGCCAGCGACTACA  
 AGGACAAGTACAGCCACCTCATCGGCAAGGGAGCAGCCAAAGACGCAGCCACATGCTACAGGCCAATAA  
 GACCTACGGCTGTGTGCCGTGGCCAATAAGAGGGACACACGCTCCATTGAAGAGGCTATGAATGAGATC  
 AGAGCCAAGAAGCGTCTGCGGCAGAGTGGGAAGAGTTGCCGCCAACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC204174 protein sequence  
 Red=Cloning site Green=Tags(s)

MADLLGSILSSMEKPPSLGDQETRRKAREQAARLKKLQEQEKQKQVEFRKRMEKEVSDFIQDSGQIKKKF  
 QPMNKIERSILHDVVEVAGLTSFSFGEDDDCRYVMIFKKEFAPSDEELDSYRRGEEWDPQKAEERKLKE  
 LAQRQEEEAQQGPVVVSPASDYKDKYSHLIGKAAKDAAHMLQANKTYGCVPVANKRDTRSIIEAMNEI  
 RAKKRLRQSGEELPPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6432\\_h08.zip](https://cdn.origene.com/chromatograms/mk6432_h08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004890

**ORF Size:** 681 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\_004890.3

**RefSeq Size:** 1038 bp

**RefSeq ORF:** 684 bp

**Locus ID:** 9552

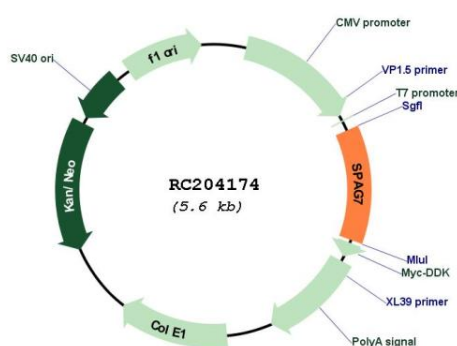
**UniProt ID:** O75391

**Cytogenetics:** 17p13.2

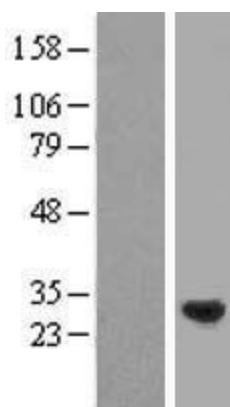
**Domains:** R3H

**MW:** 26 kDa

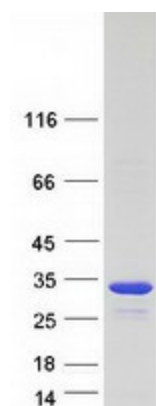
## Product images:



Circular map for RC204174



Western blot validation of overexpression lysate (Cat# [LY417676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204174 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SPAG7 protein (Cat# [TP304174]). The protein was produced from HEK293T cells transfected with SPAG7 cDNA clone (Cat# RC204174) using MegaTran 2.0 (Cat# [TT210002]).