**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC205871

## SPECC1 (NM_001033555) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | SPECC1 (NM_001033555) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | SPECC1 |
| **Synonyms:** | CYTSB; HCMOGT-1; HCMOGT1; NSP; NSP5 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC205871 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAACCACTCAGGACGGCCCGAGGATCCGGAACCAGGGGCCTTTACAACAACTAAACGGACAGGCA
TTCCAGCCCCACGGGAATTTTCAGTAACTGTCTCAAGAGAGAGGTCTGTGCCACGTGGTCCCTCCAACCC
CAGGAAATCAGTGTCCAGTCCAACTTCCTCCAACACTCCCACTCCTACGAAACACCTGAGGACCCCTTCC
ACAAAGCCCAAGCAAGAGAATGAAGGTGGAGAAAAGGCTGCGCTTGAGTCCCAAGTTCGGGAACTTTTGG
CAGAAGCCAAAGCAAAAGATAGTGAAATTAACAGGCTTCGAAGTGAACTAAAGAAATACAAAGAGAAAAG
GACTCTGAACGCTGAGGGGACTGATGCTTTGGGCCCAAATGTCGATGGAACATCAGTCTCCCCAGGTGAC
ACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACAAGAACTTTCAGAAAGAGCTTTCCGATCTAGAGG
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TCACACTGGCGACAGCAGCTGCCCAACATCCATAACTCAAGAGTCAAGCTTCGGAAGCCCAACTGGAAAT
CAGTTGTCCAGTGACATTGATGAGTATAAAAAAAACATACATGGAAATGCATTACGGACATCAGGCTCCT
CAAGTAGCGATGTTACCAAAGCTTCTTTGTCGCCAGATGCTTCCGACTTTGAGCACATTACAGCAGAGAC
ACCCTCAAGGCCCCTGTCCTCCACCAGTAACCCCTTTAAGAGTTCAAAGTGTTCTACTGCTGGGAGTTCC
CCAAACAGCGTAAGTGAATTGTCCCTGGCTTCCCTCACAGAGAAGATACAAAAGATGGAAGAAAACCACC
ATAGCACTGCAGAAGAACTACAGGCTACTCTACAAGAATTATCAGACCAGCAACAAATGGTACAGGAATT
GACAGCTGAAAATGAGAAGCTGGTGGATGAAAAGACGATTTTAGAGACATCCTTTCATCAGCATCGAGAG
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AATGGAGAATGGATCTTTGAAGTCTCATTTGCAGGGTGAGAAGCAGAAAGCCACAGAGGCCAGTGCTGTG



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GAGCAGACGGCAGAGAGCTGCGAAGTTCAAGAAATGTTGAAAGTAGCCCGAGCAGAGAAAGATCTACTGG
AACTGTCTTGCAATGAGCTCAGACAAGAATTACTAAAGGCAAATGGTGAAATTAAACATGTTTCCAGTCT
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GCCCCTCCACCTGTGGATGAAGAGCCAGAGTCCTCTGAGGTCGATGCTGCTGGTCGGTGGCCTGGTGTCT
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ATACCAGTGAGGACTGCTCCAGCAGCTGCTGTCTCTCCAATGCAGAGGCATTCGACTTACAGCAGTGTGC
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TCAGTGTGGAAAGAAAAGACCCTCTGGCGGCCTTGGCCCGGGAATACGGTGGTTCCAAGCGCAATGCTCT
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AGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCTACCTGCCTGCCCACATCCCCTACCAGGAGCTGA
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CCTGGAACTCAGCGAGATGCTGTACACAGACCGGCCCGACTGGCAGAGTGTGATGCAGTACGTGGCCCAA
ATCTACAAGTACTTTGAGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205871 protein sequence
Red=Cloning site Green=Tags(s)

MGNHSGRPEDPEPGAFTTTKRTGIPAPREFSVTVSRERSVPRGPSNPRKSVSSPTSSNTPTPTKHLRTPS
TKPKQENEGGEKAALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGD
TEPMIRALEEKNKNFQKELSDLEEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGN
QLSSDIDEYKKNIHGNALRTSGSSSSDVTKASLSPDASDFEHITAETPSRPLSSTSNPFKSSKCSTAGSS
PNSVSELSLASLTEKIQKMEENHHSTAEELQATLQELSDQQQMVQELTAENEKLVDEKTILETSFHQHRE
RAEQLSQENEKLMNLLQERVKNEEPTTQEGKIIELEQKCTGILEQGRFEREKLLNIQQQLTCSLRKVEEE
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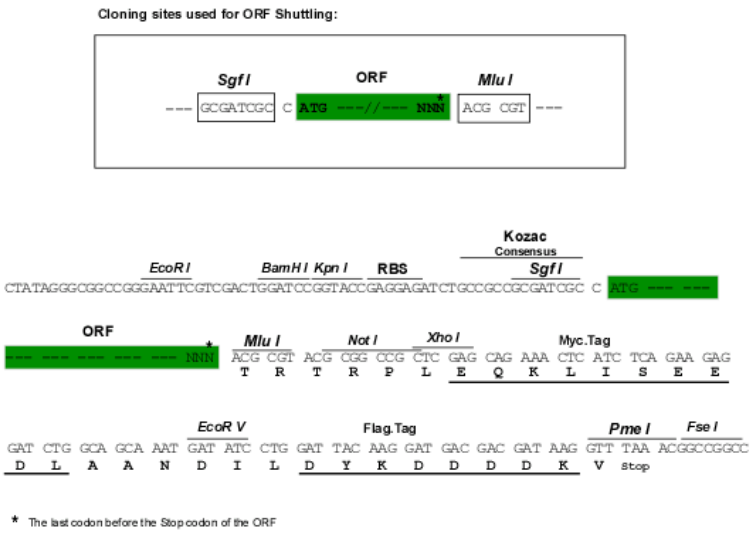
RTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRAVKLHNNQLISELESSVIKLEEQKSDLERQLKTLT
KQMKEETEEWRRFQADLQTAVVVANDIKCEAQQELRTVKRKLLEEEEKNARLQKELGDVQGHGRVVTSRA
APPPVDEEPESSEVDAAGRWPGVCVSRTSPTPPESATTVKSLIKSFDLGRPGGAGQNISVHKTPRSPLSG
IPVRTAPAAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGRTETLKPDPHLRKSPSLESLSRP
PSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYANIDITNFSSSW
SDGLAFCALLHTYLPAHIPYQELNSQEKKRNLLLAFEAAESVGIKPSLELSEMLYTDRPDWQSVMQYVAQ
IYKYFET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6451_h04.zip

**Restriction Sites:** SgfI-MluI

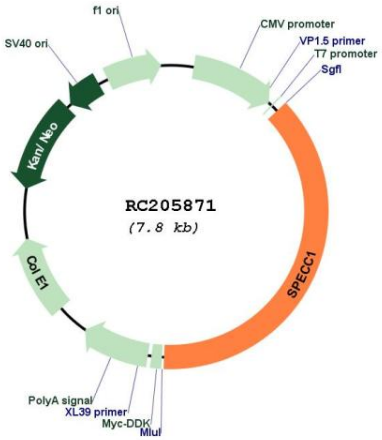
**Cloning Scheme:**



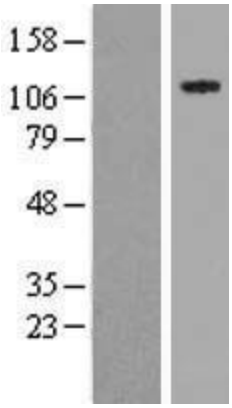

| | |
|---|---|
| **ACCN:** | NM_001033555 |
| **ORF Size:** | 2961 bp |
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001033555.3 |
| **RefSeq Size:** | 3879 bp |

| | |
|---|---|
| **RefSeq ORF:** | 2964 bp |
| **Locus ID:** | 92521 |
| **UniProt ID:** | Q5M775 |
| **Cytogenetics:** | 17p11.2 |
| **MW:** | 110.2 kDa |
| **Gene Summary:** | The protein encoded by this gene belongs to the cytospin-A family. It is localized in the nucleus, and highly expressed in testis and some cancer cell lines. A chromosomal translocation involving this gene and platelet-derived growth factor receptor, beta gene (PDGFRB) may be a cause of juvenile myelomonocytic leukemia. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011] |

## Product images:




Circular map for RC205871




Western blot validation of overexpression lysate (Cat# [LY422386]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205871 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).