

Product datasheet for **RG214073**

SPECC1 (NM_001033553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPECC1 (NM_001033553) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPECC1
Synonyms:	CYTSB; HCMOGT-1; HCMOGT1; NSP; NSP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214073 representing NM_001033553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGAGTGCAGCCAAGCCCTGGAACCCAGCCATCAGAGCAGGGGGCCACGGCCAGACCGGGTGCGGC
CTCTGCCTGCAGCCTCTCCGGCATGAAGAGTTCTAAGTCTTCAACTTCCTTGCTTTTGTAGTCCCGACT
CAGCAGGCTCAAGAGGGCCAGCAGTGAGGACACGCTCAACAAGCCAGGAAGTACCGCTGCATCGGGGGTG
GTTGCGCTGAAGAAGACCGCCACTGCCGGAGCCATCTCGGAGCTCACGGAGAGCCGCTGAGGAGCGGCA
CAGGGGCCCTTTACAACAATAACGGACAGGCATTCCAGCCCCACGGGAATTTTCAGTAAGTGTCTCAAG
AGAGAGGTCTGTGCCACGTGGTCCCTCCAACCCAGGAAATCAGTGTCCAGTCCAATTCTTCCAACACT
CCCACTCTACGAAACACCTGAGGACCCCTCCACAAAGCCCAAGCAAGAGAATGAAGGTGGAGAAAAGG
CTGCGCTTGAGTCCCAAGTTCGGGAACCTTTGGCAGAAGCCAAAGCAAAAGATAGTGAAATTAACAGGCT
TCGAAGTGAACATAAGAAATACAAAGAGAAAAGGACTCTGAACGCTGAGGGGACTGATGCTTTGGGCCCCA
AATGTCGATGGAACATCAGTCTCCCCAGGTGACACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACA
AGAACTTTCAGAAAGAGCTTTCCGATCTAGAGGAAGAAAACCGGGTCTGAAGGAGAACTGATCTATCT
TGAGCACTCCCCAAATTCAGAAGGGCAGCAAGTCACACTGGCGACAGCAGCTGCCCAACATCCATAACT
CAAGAGTCAAGCTTCGGAAGCCCAACTGGAATCAGATGTCCAGTGACATTGATGAGTATAAAAAACA
TACATGGAAATGCATTACGGACATCAGGCTCCTCAAGTAGCGATGTTACCAAAGCTTCTTTGTGCGCAGA
TGCTTCCGACTTTGAGCACATTACAGCAGAGACACCCCTCAAGGCCCTGTCTCCACCAGTAACCCCTTT
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TTGACCTGTAGCTTGCAGGAGGTTGAGGAAGAAAACCAAGGAGCTTTAGAAATGATTAAACGTCTGAAGG
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CAATGCAGAGGCATTGCACTTACAGCAGTGTCGGCCAGCCAGCAGAGGGGTGACTCAACGCTTGGACCT
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CTTCCACCCGGGCATGGAACCAACAAAGCAAACCTCAGTGTGGAAGAAAAGACCTCTGGCAGCCTTGGC
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AACATTGACATCACCATTTCAGCAGCAGCTGGAGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCT
ACCTGCCTGCCACATCCCTACCAGGAGCTGAATAGTCAGGAGAAAAAGAGGAATCTCTTGTGGCATT
TGAAAGCGCTGAAAGTGTAGGCATCAAACCCAGCCTGGAAGTCAAGCAGATGCTGTACACAGACCGGCC
GACTGGCAGAGTGTGATGCAGTACGTGGCCCAATCTACAAGTACTTTGAGACG

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214073 representing NM_001033553

Red=Cloning site Green=Tags(s)

MRSAAKPWNPAIRAGGHGPDVRPLPAASSGMKSSKSSSTSLAFESRLSRLKRASSEDTLNKPSTAAASGV
VRLKKTATAGAISELTESRLSGTGAFTTTKRTGIPAPREFSVTVSRERSVPRGPSNPRKSVSSPTSSNT
PTPTKHLRTPSTKPKQENEGGEKAALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGP
NVDGTSVSPGDTEPMIRALEEKNKFQKELSDLEENRVLKEKLIYEHSPNSEGAASHTGDSSCPTSIT
QESSFGSPTGNQMSSDIDEYKKNIHGNALRTSGSSSDVTKASLSPDASDFEHITAETPSRPLSSTSNPF
KSSKCSTAGSSPNSVSELSLASLTKIQQMEENHHSTAEELQATLQELSDQQQMVQELTAENEKLVEKT
ILETSFHQHRERAEQLSQENEKLMNLLQERVKNEEPTTQEGKIIIELEQKCTGILEQGRFEREKLLNIQQQ
LTCSLRKVEEENQGALEMIKRLKEENEKLNFLERHNNMMAKTLEECRVTLEGLKMENGSLKSHLQG
EKQKATEASAVEQTAESCEVQEMLKVARAEKDLELSCNELRQELLKANGEIKHVSSLLAKVEKDYSYK
EICDHQAEQLSRTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRAVKLHNNQLISELESSVIKLEEQK
SDLERQLKTLTKQMKETEERWFQADLQTAVVVANDIKCEAQQLRTVKRKLLEEEKNARLQKELGDV
QGHGRVTSRAAPPPVDEEPESSEVDAAGRWPGVCVSRTSPTPPESATTVKSLIKSFDLGRPGGAGQNIS
VHKTPRSPLSGIPVRTAPAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGRTE TLKDPHLR
KSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYA
NIDITNFSSSWSDGLAFCALLHTYLP AHIPYQELNSQEKRNLLLAFAEASVGIKPSLELSEMLYTD RP
DWQSVMQYVAQIYKFET

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001033553

ORF Size: 3204 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.

RefSeq: [NM_001033553.2](#), [NP_001028725.1](#)

RefSeq Size: 3970 bp

RefSeq ORF: 3207 bp

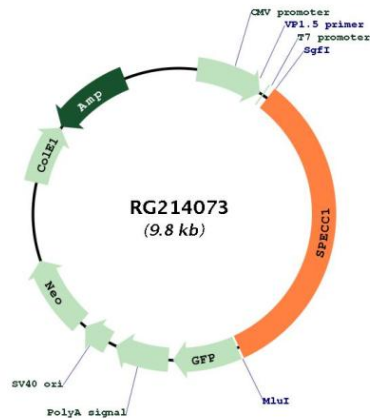
Locus ID: 92521

UniProt ID: [Q5M775](#)

Cytogenetics: 17p11.2

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 RG214073