

Product datasheet for RC201714

DSCC1 (NM_024094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DSCC1 (NM_024094) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DSCC1
Synonyms:	DCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201714 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAGAGGACCCGCGACGAGGTGGATGCGACGCTGCAGATCGCCAAGCTGAATGCGGCCGAGCTGCTGC
 CGGCGGTGCACTGCCTGGGCTTCGGCCCTGGGGCCAGCGCGCTGCAGCCGGCGACTTCTGCCTGCTGGA
 GCTGGAGCCCACGCTGTGCCAGCAGCTGGAGGATGGACACAGTCTTGATTCTGGTGATAAAGACGAG
 CAAGCTGTGCTGTGCAGTAAAGACAAAACATACGACTTGAAGATAGCAGACACTTCCAATATGTTGCTTT
 TCATTCTGGTTGTAAACTCCGACCAGTTGAAGAAGGAAGATTCACACTGTAACTATTTCACACTGA
 GATCTTTGGTTTTCTAATAATTATTGGGAATTAAGAAGACGTAGACCCAAGTTAAAGAAGCTAAAGAAA
 CTTTTGATGGAATCCATATGAAGGACCTGACAGTCAAAAAGAGAAGGATTCAAATAGCTCAAAATATA
 CAACTGAAGATTGCTTGATCAAATTCAGGCAAGTGAGGAAGAAATAATGACCCAATTACAAGTTCTAAA
 TGCCTGTAAGATTGGAGGTTATTGGAGGATTCTTGAATTTGATTATGAGATGAACTTCTGAATCATGTA
 ACTCAGCTTGAGATTCTGAATCATGGTCTTTGGTAAAGTTCCTTTGAACACATGCCTTCAGGAACCTCG
 GACCATTGGAGCCAGAGGAAATGATAGAACTGTCTTAAATGTTATGGGAAGAAATATGTAGATGAAGG
 CGAAGTTTATTTGAGTTGGATGCTGATAAAATATGTAGAGCAGCAGCAGCAATGCTACTTCAGAATGCG
 GTGAAATTCATCTCGCTGAGTTTCAAGAAGTGTGGCAGCAGAGTGTTCCTGAAGGAATGGTAACCTAGTC
 TTGATCAGCTTAAGGTTTAGCGCTGGTGATAGACACTCGAGACCAGAAATCATATTTTGTGAAAGT
 AGATGATTACCTGAGGATAATCAGGAACGTTTAAATAGCCTTTTCTCTCTAAGGAGAAGTGGACAGAA
 GAAGATATTGCTCCATATATTCAAGATTGTGTGGAGAGAAGCAACCATAGGTGCATTACTCACTAAAT
 ATTCTCGTTCTTCGATGCAAAATGGTGTAAAGTTTATAATTCGAGAAGACCCATTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201714 protein sequence
 Red=Cloning site Green=Tags(s)

MKRTRDEVDTLQIAKLNAEELLPAVHCLGFGPGASGAAAGDFCLLELEPTLCQQLEDGHSLVIRGDKDE
 QAVLCSKDKTYDLKIADTSNMLLFIPGCKTPDQLKKEDSHCNIIHTEIFGFSNNYWELRRRRPKLKKLKK
 LLMENPYEGPDSQKEKDSNSSKYTTEDLLDQIQASEEEIMTQLQVLNACKIGGYWRILEFDYEMKLLNHV
 TQLVDSSESWSFGKVPLNTCLQELGPLPEEMIEHCLKCYGKKYVDEGEVYFELDADKICRAAARMLLQNA
 VKFNLAEFQEVWQQSVPEGMVTSLDQLKGLALVDRHSRPEIIFLLKVDDLPEDNQERFNSLFSLEKRWTE
 EDIAPYIQDLCGEKQTIGALLTKYSRSSMQNGVKVYNSRRPIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6541_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024094

ORF Size: 1179 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_024094.1](#), [NP_076999.1](#)

RefSeq Size: 2291 bp

RefSeq ORF: 1182 bp

Locus ID: 79075

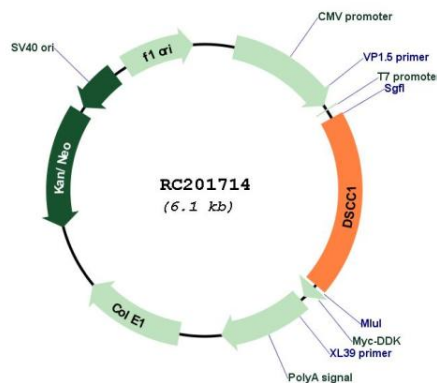
UniProt ID: [Q9BVC3](#)

Cytogenetics: 8q24.12

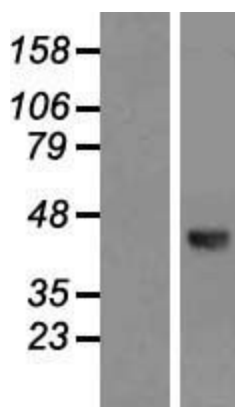
MW: 44.8 kDa

Gene Summary: CHTF18 (MIM 613201), CHTF8 (MIM 613202), and DSCC1 are components of an alternative replication factor C (RFC) (see MIM 600404) complex that loads PCNA (MIM 176740) onto DNA during S phase of the cell cycle (Merkle et al., 2003 [PubMed 12766176]; Bermudez et al., 2003 [PubMed 12930902]).[supplied by OMIM, Dec 2009]

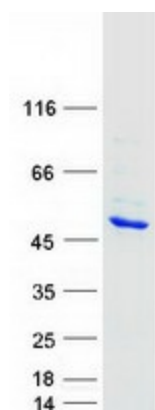
Product images:



Circular map for RC201714



Western blot validation of overexpression lysate (Cat# [LY411365]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201714 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DSCC1 protein (Cat# [TP301714]). The protein was produced from HEK293T cells transfected with DSCC1 cDNA clone (Cat# RC201714) using MegaTran 2.0 (Cat# [TT210002]).