

## Product datasheet for **RG225970**

### **CDC7 (NM\_001134420) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CDC7 (NM_001134420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC7
Synonyms:	CDC7L1; HsCDC7; Hsk1; huCDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225970 representing NM\_001134420  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGCGTCTTTGGGATTAGATGGATGAGCCAATGGCTTTTCTCCCAGCGTGACCGGTTTCAGG  
 CTGAAGGCTCTTTAAAAAAGCAGCAGAAATTTAACTTGCAGGTGTTAAAAAGATATTGAGAAGCT  
 TTATGAAGCTGTACCACAGCTTAGTAATGTGTTTAAAGATTGAGGACAAAATTGGAGAAGGCACTTTCAGC  
 TCTGTTTATTTGGCCACAGCACAGTTACAAGTAGGACCTGAAGAGAAAATTGCTCTAAAACACTTGATTC  
 CAACAAGTCATCTATAAGAATTGCAGCTGAACCTCAGTGCCTAACAGTGGCTGGGGGCAAGATAATGT  
 CATGGGAGTTAAATACTGCTTTAGGAAGAATGATCATGTAGTTATTGCTATGCCATATCTGGAGCATGAG  
 TCGTTTTTGGACATTCTGAATTCTTTCTTTCAAGAAGTACGGGAATATATGCTTAATCTGTTCAAAG  
 CTTTGAACGCATTATCATAGTTTGGTATTGTTCCCGTGTGTTAAGCCAGCAATTTTTATATAATAG  
 GCGCCTGAAAAAGTATGCCTTGGTAGACTTTGGTTTGGCCCAAGGAACCCATGATACGAAAATAGAGCTT  
 CTTAAATTTGTCCAGTCTGAAGCTCAGCAGGAAAGGTGTTCAAAAACAATCCACATAATCACAGGAA  
 ACAAGATTCACACTGAGTGGCCAGTACCTAAGGAGCTGGATCAGCAGTCCACCACAAAAGCTTCTGTAA  
 AAGACCCTACACAAATGCACAAATTCAGATTAACAAGGAAAAGACGGAAAGGAGGGATCTGTAGGCCTT  
 TCTGTCCAGCGCTCTGTTTTGGAGAAAGAAATTTCAATATACACAGCTCCATTTACATGAGAGCCCTG  
 CAGTGAACCTCATGAAGCAGTCAAAGACTGTGGATGACTGTCTAGAAAGTTAGCAACAAAAAAGAGGC  
 TATTTCTACAAAAGTTATGAATAGTGTGTGATGAGGAAAAGTCCAGTCTTGGCCAGCTAGCCTGACC  
 TGTGACTGCTATGCAACAGATAAAGTTTGTAGTATTGCTTTCAAGGCGTCAGCAGGTTGCCCTAGGG  
 CAGGTACACCAGGATTCAGAGCACCAGAGTCTTGACAAAAGTCCCAATCAAACACAGCAATGACAT  
 GTGGTCTGCAGGTGCATATTTCTTTCTTTGCTTAGTGGACGATATCCATTTTATAAAGCAAGTATGAT  
 TTAAGTCTTTGGCCAAATTATGACAATTAGGGGATCCAGAGAACTATCCAAGCTGCTAAAACCTTTG  
 GGAAATCAATATTATGTAGCAAAGAAGTCCAGCACAAGACTTGAGAAAAGCTGCTGAGAGACTCAGGGG  
 TATGGATTCTAGCACTCCCAAGTAAACAAGTATACAAGGCGATGCTTCTCATCAACCAGCTATTTCA  
 GAGAAGACTGACCATAAAGCTTCTGCTGCTTCAAACACCTCCAGGACAATACTCAGGGAATTCATTTA  
 AAAAGGGGATAGTAATAGCTGTGAGCATTGTTTTGATGAGTATAATACCAATTTAGAAGGCTGGAATGA  
 GGTACCTGATGAAGCTTATGACCTGCTTGATAAAGTCTAGATCTAAATCCAGCTTCAAGAATAACAGCA  
 GAAGAAGCTTTGTGCATCCATTTTTAAAGATATGAGCTTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG225970 representing NM\_001134420  
 Red=Cloning site Green=Tags(s)

MEASLGIQMDEPMAFSPQRDRFQAEGLKNEQNFKLAGVKKDIEKLYEAVPQLSNVFKIEDKIGEGTFS  
 SVYLATAQLQVGPEEKIALKHLIPTSHPIRIAELQCLTVAGGQDNVMGVKCFRKNNDHVVIAMPYLEHE  
 SFLDILNSLSFQEVREYMLNLFKALKRIHQFGIVHRDVKPSNFLYNRRLKKYALVDFGLAQGTHDTKIEL  
 LKFVQSEAAQERCSQNKSHIITGNKIPLSGVPKELDQQSTTKASVKRPYTNAQIQKQKDGKEGSVGL  
 SVQRSVFGERNFNIHSSISHESPAVKLMQSKTVDVLSRKLATKKKAISTKVMNSAVMRKTASSCPASLT  
 CDCYATDKVCSICLSRRQQVAPRAGTPGFRAPEVLTKCPNQTTAIDMWSAGVIFLSLLSGRYPFYKASDD  
 LTAQAQIMTIRGSRETIQAAKTFGKSILCSKEVPAQDLRKLKERLGMDSSTPKLTSDIQGHASHQPAIS  
 EKTDHKASCLVQTPPGQYSGNSFKKGDSNSCEHCFDEYNTNLEGWNEVPDEAYDLLDKLLDLPASRITA  
 EEALLHPFFKDMSL

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

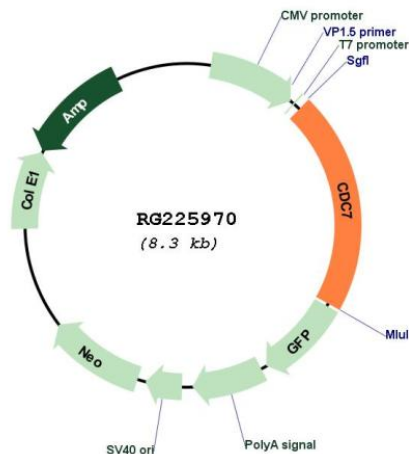
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001134420  
 ORF Size: 1722 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001134420.1</a> , <a href="#">NP_001127892.1</a>
<b>RefSeq Size:</b>	3316 bp
<b>RefSeq ORF:</b>	1725 bp
<b>Locus ID:</b>	8317
<b>UniProt ID:</b>	<a href="#">O00311</a>
<b>Cytogenetics:</b>	1p22.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Cell cycle
<b>Gene Summary:</b>	This gene encodes a cell division cycle protein with kinase activity that is critical for the G1/S transition. The yeast homolog is also essential for initiation of DNA replication as cell division occurs. Overexpression of this gene product may be associated with neoplastic transformation for some tumors. Multiple alternatively spliced transcript variants that encode the same protein have been detected. [provided by RefSeq, Aug 2008]