

Product datasheet for **RR210442**

Cts7 (NM_001106099) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cts7 (NM_001106099) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cts7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210442 representing NM_001106099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGTGGCTGTTTTCTGGCCATCCTGTGCTTGAGAGCAGCCTTGGCTGCTCCAAGGCCTGATTACA
GTTTGGATGCCGAGTGGGAGGAGTGGAAGGAACAATGCGAAAACATACAGCCCAGAGGAGGAAAAAGCA
GAGGAGAGCAGTGTGGGAAGAAAATGTGAAAATGATCAAATGGCACACTATGCAGAATGGCCTGTGGATG
AACAACTTCACCATAGAAATGAATGAATTTGGTGACATGACTGGTGAGGAAATGAGAATGATGACAGATA
GTTGAGCTCTGACTCTAAGAAATGGAAAACACATCCAGAAACGCAATGTCAAAATTCCTCAAAACCTTGA
TTGGAGAGATACAGGCTGTGTGGCTCCTGTGCGAAGCCAGGGAGGATGTGGTGCATGTTGGGCCTTTTCT
GTGGCCGCTTCCATAGAAAGTCAGCTGTTCAAGAAAACAGGCAAACTGATCCCACTGAGTGACAGAATT
TAATTGACTGCACAGTTACTTATGGCAATAATGACTGTTCTGGAGGCAAACTTATACGGCCTTCCAATA
TGTGAAGAACAAATGGCGGTCTGGAGGCTGAGGCAACCTACCCATATGAAGCAAAGCTACGGCACTGCAGG
TACCGTCTGAACGTTCTGTTGTTAAGATAGCCCGCTTTTTGTTGTCCAAGGAATGAAGAAGCCCTAA
TGCAAGCTCTAGTAACCTATGGGCCATTGCTGTTGCAATTGATGGTTCGCATGCATCCTTTAAAGATA
TCGAGGAGGTATATATCATGAGCCAAAATGTAGCGTGATACTCTGACCATGGTCTACTATTGGTTGGC
TATGGCTATGAAGGCCATGAGTCAGAGAACAGAAAATACTGGCTGCTAAAGAACAGCCATGGTGAACAAT
GGGGTGAAGGGGCTACATGAAGCTCCCAGAGATCAGAACAACTACTGTGAATTGCTTCTTATGCCAT
GTACCCTCTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR210442 representing NM_001106099

Red=Cloning site Green=Tags(s)

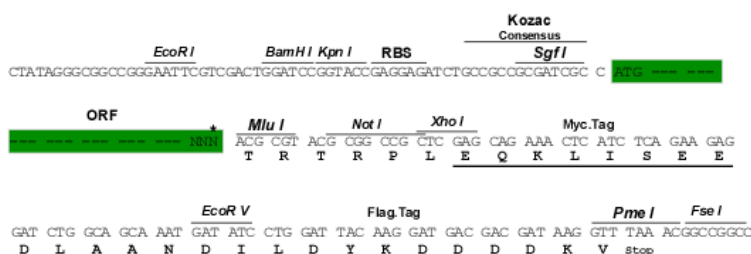
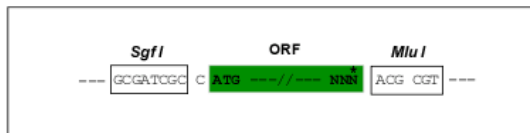
MTVAVFLAILCLRAALAAPRPDYSLDAEWEEWKRNNAKTYSPREEEKQRRAVWEENVKMIKWHTMQNGLWM
NNFTIEMNEFGDMTGEEMRMMDTSSALTLRNGKHIQKRNVKIPKTLDWRDTGCVAPVRSQGGCGACWAFS
VAASIESQLFKKTGKLPLSVQNLIDCTVYGNNDSCSGKPYTAFQYVGNNGGLEAEATYPYEAKLHRCR
YRPSRVVKKIARFFVVRPNNEEALMQALVTYGIPIADIGSHASFYRKYRGGIYHEPKCRDRDLDHGLLLVG
YGYEGHESENKRYWLLKNSHGEOGGERGYMKLPDRONNCGIASFYAMYPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001106099

ORF Size: 993 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_001106099.1](#), [NP_001099569.1](#)

RefSeq Size: 1505 bp

RefSeq ORF: 996 bp

Locus ID: 290970

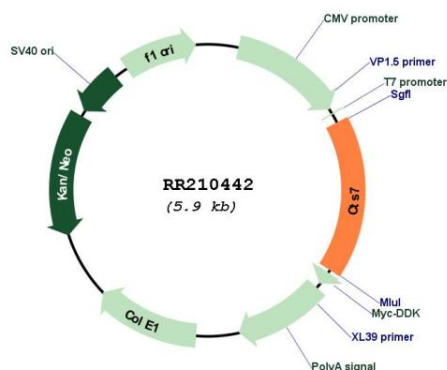
UniProt ID: [D3ZZ07](#)

Cytogenetics: 17p14

MW: 37.9 kDa

Gene Summary: Involved in trophoblast cell proliferation and differentiation probably by affecting mitotic cell cycle progression. Proteolytic activity and nuclear localization are essential for its role in cell cycle progression (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210442