

Product datasheet for **MG204873**

Cts7 (NM_019539) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cts7 (NM_019539) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cts7
Synonyms: AA408230; AA408952; CTS1; Epcs24; Epcs71
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204873 representing NM_019539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTCCTACTGTCTTCTGTCCATCCTGTGCTGGGAGTGGCCTTGGCTGCTCCAGCACCTGATTACA
 ATTTGGATGCCGAGTGGGAGGAGTGGAAGAGGAGCAATGACAGAACATACAGCCCAGAGGAAGAAAAACA
 GAGGAGAGCAGTGTGGGAAGGAAATGTGAAATGGATCAAACAGCACATTATGGAGAATGGCTGTGGATG
 AACAACTCACCATAGAAATGAATGAATTTGGTATATGACTGGTGAAGAAATGAAATGTTGACAGAAA
 GCTCATCTTATCCTCTAAGAAATGGGAAACACATCCAGAAACGCAACCCAAAATCCCCCAACTTTGGA
 TTGGAGAAAGGAAGGCTATGTGACTCCAGTGCGAAGACAGGGAAGTTGTGGCGCATGTTGGGCTTTTTCT
 GTGACTGCATGCATAGAAGGTCAACTGTTCAAGAAAACCTGGCAAACCTGATCCCCTGAGTGTACAGAATT
 TAATGGACTGCTCAGTATCTTATGGCACCAAGGCTGTGATGGAGGCAGACCTTATGATGCCTTCCAATA
 TGTGAAGAACAATGGAGGTCTAGAAGCTGAGGCAACCTATCCATATGAAGCAAAGGCAAAACACTGCAGG
 TACCGTCTGAACGTTCTGTTGTTAAGGTCAACCGCTTTTTTGTGTTCCAAGGAATGAAGAAGCTCTAC
 TGCAAGCTCTAGTAACACATGGACCCATTGCTGTTGCAATTGATGTTTCATGCATCCTTTCATTACATA
 TCGGGGAGGTATATATCATGAGCCAAAGTGCAGAAAGGATACTCTCGACCATGGTTTACTATTGGTTGCC
 TATGGCTATGAAGGCCATGAGTCAGAGAACAGGAAATATTGGCTGCTAAAGAACGCCATGGTGAAGAT
 GGGGAGAAAATGGCTACATGAAGCTTCCCAGAGGTCAGAACTACTGTGGAATTGCTTCTTATGCCAT
 GTACCCTGCATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204873 representing NM_019539
 Red=Cloning site Green=Tags(s)

MTPTVFLSILCLGVALAAPADYNLDAEWEEWKRSNDRTYSPEEEKQRRRAVWEGNVKWKIQHIMENGLWM
 NNFTIEMNEFGDMTGEEMKMLTESSYPLRNGKHIQKRNPKIPPTLDWRKEGYVTPVRRQGSCGACWAFS
 VTACIEGQLFKKTGKLIPLSVQNLMDCSVSYGTKGCDGGRPYDAFYVKNNGGLEAEATYPYEAKAKHCR
 YRPERSVVKVNRFFVVPREEALLQALVTHGPIAVAIDGSHASFHSYRGGIYHEPKCRKDTLDHGLLLVG
 YGYEGHESENRYWLLKNSHGERWGENGYMKLPRGQNNYCGIASYAMY PAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019539

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_019539.2](#)

RefSeq Size: 1493 bp

RefSeq ORF: 996 bp

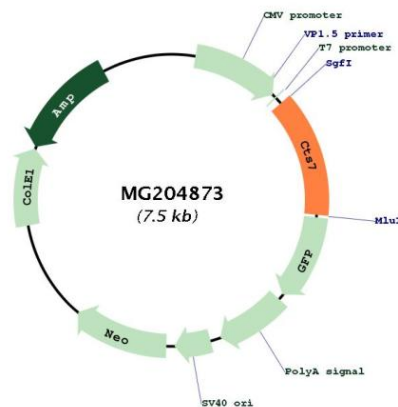
Locus ID: 56092

UniProt ID: [Q91ZF2](#)

Cytogenetics: 13 B2

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204873