

## Product datasheet for **MG204936**

### **Cts8 (NM\_019541) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cts8 (NM\_019541) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cts8  
**Synonyms:** CTS2; Epcs68; Epcs70  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204936 representing NM\_019541  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCCTGCTCTTGTGGCCATCCTATGCTGGGAGCGGCTGAAGTTACTCAATCATCTGATCCCA  
GTTTGGATTCTGAATGGCAGGAGTGGAAGAGAAAATTTAACAAAACTACAGCATGGAGGAAGAAGGACA  
GAAGAGAGCAGTGTGGGAAGAAAACATGAACTGGTCAAACAGCATAATATTGAATATGATCAGGGAAAG  
AAAACTTCAACATGGATGTCAATGCCTTTGGTGACATGACTGGTGAGGAATACAGGAAAATGCTGACTG  
ATATTCCAGTCCCAAATTTAGGAAGAAGAAAAGTATCCACCAACCTATTGCTGGTTATCTCCCAAATT  
TGTGGACTGGAGAAAAGAGGCTGTGTGACTCCTGTGAAGAATCAGGGCACGTGTAATTCTTGTGGGCT  
TTTTCTGCGGCTGGTGCCATAGAAGGACAGATGTTTCAGGAAAACAGGCAAACCTGGTCCCCTGAGCACAC  
AAAATCTAGTGGACTGTTCTAGACTTGAAGGGAATTTCCGCTGTTTTAAGGGCAGCACATTCCTTGTCTT  
AAAGTACGTGTGGAAAAATAGAGGTCTAGAGGCTGAGTCAACCTATCCATACAAAGGAACGGACGGACAC  
TGCAGGTACCACCTGAACGTTCTGCTGCTAGAATCACTAGCTTTTCGTTTGTCTCAAACAGTGAGAAAG  
ACTTAATGCGTGCTGTAGCAACTATCGGACCATCTCTGTTGGAATTGATGCTAGACATAAATCTTTCAG  
GTTGTATAGGGAAGGTATTTATTATGAGCCAAAGTGCAGCAGTAATATTATCAACCATTCTGTTCTGGTA  
GTTGGCTATGGTTATGAAGGAAAGGAGTCAGATGGCAACAAATATTGGCTGATAAAGAACAGTCATGGTG  
AGCAATGGGGCATGAATGGCTACATGAAGCTTGCCAGAGGCAGGAACAACCACTGTGGAATTGCTTCATA  
TGCCGTCTACCCAGAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG204936 representing NM\_019541  
 Red=Cloning site Green=Tags(s)

MGPAVLLAILCLGAAEVTQSSDPSLDSEWQEWKRFNKNYSMEEEGQKRAVWEENMKLVKQHNIEYDQGK  
 KNFTMDVNAFGDMTGEEYRKM L TDIPVPNFRKKKSIHQPIAGYLPKFVDWRKRGCVTPVKNQGT CNSCWA  
 FSAAGAIEGQMFRTKGLVPLSTQNLVDCSRLEGNFGCFKGSTFLALKYVWKNRGLAEASTYPYKGT DGH  
 CRYHPERSAARITSFVSNSEKDLMRAVATIGPI SVGIDARHKSFRLYREGIYYEPKCSSNIINHSLV  
 VGYGYEGKESDGNKYWL IKNSHGEQWGMNGYMKLARGRNNHC GIASYAVYPRV

TRTRPLE - GFP Tag - V

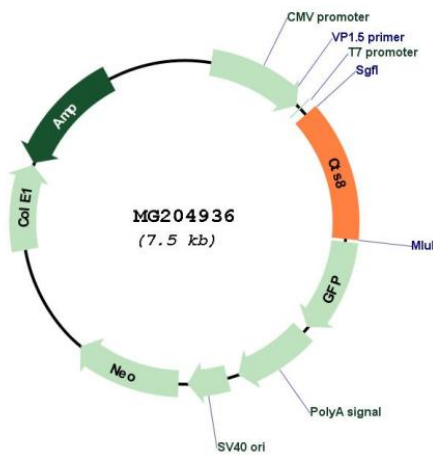
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_019541

ORF Size: 999 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_019541.2</a> , <a href="#">NP_062414.2</a>
<b>RefSeq Size:</b>	2498 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	56094
<b>UniProt ID:</b>	<a href="#">Q9J181</a>
<b>Cytogenetics:</b>	13 B2
<b>Gene Summary:</b>	Probable protease (By similarity). In placenta, plays a role in promoting giant cell differentiation (PubMed:18776147). Also plays a role in placental spiral artery remodeling by direct degradation of smooth muscle alpha-actin (PubMed:18776147).[UniProtKB/Swiss-Prot Function]