

Product datasheet for MR204936

Cts8 (NM_019541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cts8 (NM_019541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cts8
Synonyms:	CTS2; Epcs68; Epcs70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204936 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCCTGCTGCTTCTGCTGGCCATCCTATGCTTGGGAGCGGCTGAAGTTACTCAATCATCTGATCCCA
GTTTGGATTCTGAATGGCAGGAGTGAAGAGAAAAATTTAACAAAACTACAGCATGGAGGAAGAAGGACA
GAAGAGAGCAGTGTGGGAAGAAAACATGAACTGGTCAAACAGCATAATATTGAATATGATCAGGGAAAG
AAAAACTTCACCATGGATGTCAATGCCTTTGGTGACATGACTGGTGAGGAATACAGGAAAATGCTGACTG
ATATTCCAGTCCCAAATTTAGGAAGAAGAAAAGTATCCACCAACCTATTGCTGGTTATCTCCCAAATT
TGTGGACTGGAGAAAAAGAGGCTGTGTGACTCCTGTGAAGAATCAGGGCAGGTGAATTCTTGTGGGCT
TTTTCTGCGGCTGGTGCCATAGAAGGACAGATGTTTCAGGAAAACAGGCAAACCTGGTCCCCTGAGCACAC
AAAATCTAGTGGACTGTTCTAGACTTGAAGGGAATTTTCGGCTGTTTTAAGGGCAGCACATTCCTTGTCTT
AAAGTACGTGTGGAAAAATAGAGGTCTAGAGGCTGAGTCAACCTATCCATACAAAGGAACGGACGGACAC
TGCAGGTACCACCTGAACGTTCTGCTGCTAGAATCACTAGCTTTTCGTTTGTCTCAAACAGTGAGAAAG
ACTTAATGCGTGTAGCAACTATCGGACCATCTCTGTTGGAATTGATGCTAGACATAAATCTTTCAG
GTTGTATAGGGAAGGTATTTATTATGAGCCAAAGTGCAGCAGTAATATTATCAACCATTCTGTTCTGGTA
GTTGGCTATGGTTATGAAGGAAAGGAGTCAGATGGCAACAAATATTGGCTGATAAAGAACAGTCATGGTG
AGCAATGGGGCATGAATGGCTACATGAAGCTTGCCAGAGGCAGGAACAACCACTGTGGAATTGCTTCATA
TGCCGTCTACCCAGAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204936 protein sequence
Red=Cloning site Green=Tags(s)

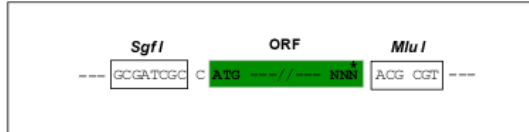
MGPAVLLAILCLGAAEVTQSSDPSLDSEWQEWKRFNKNYSMEEEGQKRAVWEENMKLVKQHNIEYDQGK
 KNFTMDVNAFGDMTGEEYRKM L TDIPVFNFRKKKSIHQPIAGYLPKFVDRKRGCVTPVKNQGT CNSCWA
 FSAAGAIEGQMFRTKGLVPLSTQNLVDCSRLEGNFGCFKGSTFLALKYVWKNRGLAEASTYPYKGTGDGH
 CRYHPERSAARITSFVSNSEKDLMRVATIGPISVGDARHKSFRLYREGIYYEPKCSSNIINHSLV
 VGYGYEGKESDGNKYWLKNSHGEQWGMNGYMKLARGRNNHCGIASYAVYPRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019541

ORF Size: 1002 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_019541.2](#), [NP_062414.2](#)

RefSeq Size: 2493 bp

RefSeq ORF: 1002 bp

Locus ID: 56094

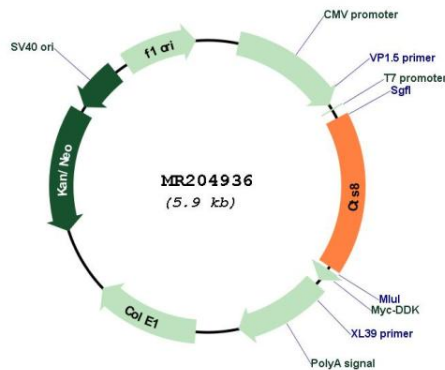
UniProt ID: [Q9J181](#)

Cytogenetics: 13 B2

MW: 37.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR204936