

Product datasheet for **SC303654**

CST8 (NM_005492) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CST8 (NM_005492) Human Untagged Clone
Tag:	Tag Free
Symbol:	CST8
Synonyms:	CRES; CTE55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303654 representing NM_005492. Blue=Insert sequence Red=Cloning site Green=Tag(s)

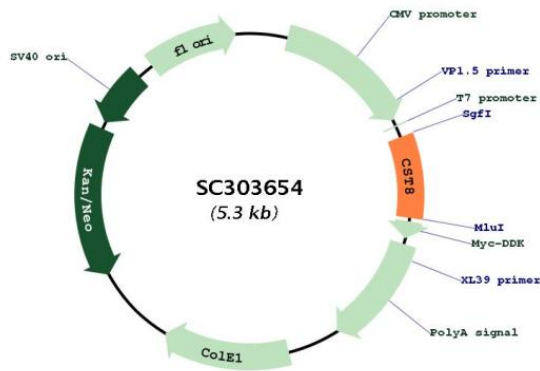
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGGTGCCGGTGGCTCTCCCTGATCCTCCTCACCATTCCCCTGGCCCTGGTGGCCAGGAAAGAC
CCAAAAAGAATGAGACAGGGGTGCTGAGGAAATTAACCCCGTCAATGCCTCAAATGCCAACGTGAAG
CAGTGTCTGTGGTTTGCCATGCAAGAATAACAAGAGAGCGAGGACAAGTATGTCTTCTGGTGGTC
AAGACTGCAAGCCAGCTTCAGGTCACAAATCTTCTGGAATACCTTATTGATGTAGAAATTGCCCGC
AGCGATTGCAGAAAGCCTTAAGCACTAATGAAATCTGCGCCATTCAAGAAAACCCAAGCTGAAAAGG
AAATTAAGCTGCAGCTTTTTGGTAGGAGCACTCCCTGGAATGGTGAATCACTGTGATGGAGAAAAAG
TGTGAAGATGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_005492

Insert Size: 429 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_005492.3](#)

RefSeq Size: 923 bp

RefSeq ORF: 429 bp

Locus ID: 10047

UniProt ID: [O60676](#)

Cytogenetics: 20p11.21

Protein Families: Secreted Protein

MW: 16.3 kDa

Gene Summary: The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a protein similar to type 2 cystatins. The encoded protein exhibits highly tissue-specific expression in the reproductive tract, suggesting implicit roles in reproduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.