

Product datasheet for **RC222197**

Cortistatin (CORT) (NM_001302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cortistatin (CORT) (NM_001302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cortistatin
Synonyms:	CST-14; CST-17; CST-29; SST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC222197 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATAGACACAAAAACAGCTGGAGATTGGGCTTAAATACCCACCAAGCTCCAAGAAGAGACCCAAG
TCCCCAAACATTGATTTCAAGGCTGCCAGGAAGGAAGAGCAGCAGCAGGGTGGGAGAGAAGCTCCAGTC
AGCCCCACAAGATGCCATTGTCCCCGGCCTCCTGCTGCTGCTCTCCGGGGCCACGGCCACCGCTGCC
CTGCCCTGGAGGGTGGCCCCACCGCCGAGACAGCGAGCATATGCAGGAAGCGGCAGGAATAAGGAAAA
GCAGCCTCCTGACTTTCCTCGTTGGTGGTTTGAGTGGACCTCCAGGCCAGTGCCGGGGCCCTCATAGG
AGAGGAAGCCCGGAGGTGGCCAGGCGGCAGGAAGGCGCACCCCCCAGCAATCTGCGCGCCGGGACAGA
ATGCCCTGCAGGAACCTTCTCTGAAGACCTTCTCCTCTGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	<p>>RC222197 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p>
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MYRHKNSWRLGLKYPPSSKEETQVPKTLISGLPGRKSSSRVGEKLQSAHKMPLSPGLLLLLLSGATATAA
LPLEGGPTGRDSEHMQEAAAGIRKSSLLTFLAWFEWTSQASAGPLIGEEAREVARRQEGAPPQQSARRDR
MPCRNFFWKTFSSCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6442_f12.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001302

ORF Size: 465 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001302.2](#)

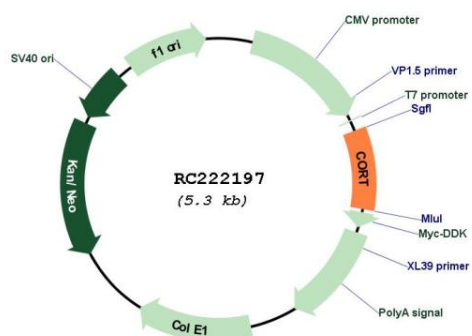
RefSeq Size: 1238 bp

RefSeq ORF: 318 bp

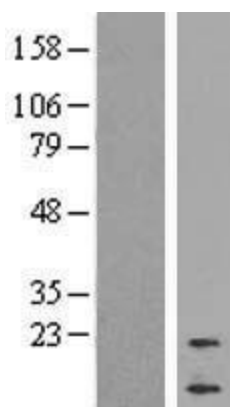
Locus ID: 1325
UniProt ID: [O00230](#)
Cytogenetics: 1p36.22
Protein Families: Druggable Genome, Secreted Protein
MW: 17.2 kDa

Gene Summary: This gene encodes a neuropeptide that is structurally similar to somatostatin. It binds to all known somatostatin receptors, and shares many pharmacological and functional properties with somatostatin, including the depression of neuronal activity. However, it also has many properties distinct from somatostatin, such as induction of slow-wave sleep, apparently by antagonism of the excitatory effects of acetylcholine on the cortex, reduction of locomotor activity, and activation of cation selective currents not responsive to somatostatin. The preproprotein undergoes further processing into multiple mature products. Read-through transcripts exist between this gene and the upstream APITD1 (apoptosis-inducing, TAF9-like domain 1) gene, as represented in GeneID:100526739. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RC222197



Western blot validation of overexpression lysate (Cat# [LY420020]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).