

Product datasheet for RG222197

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

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: TurboGFP Symbol: Cortistatin

Synonyms: CST-14; CST-17; CST-29; SST2

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG222197 representing NM_001302

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTATAGACACAAAAACAGCTGGAGATTGGGCTTAAAATACCCACCAAGCTCCAAAGAAGAAGAGCCCAAG
TCCCCAAAACATTGATTTCAGGGCTGCCAGGAAGGAAGAGCAGCAGCAGGGTGGGAGAGAAGCTCCAGTC
AGCCCACAAGATGCCATTGTCCCCCGGCCTCCTGCTGCTGCTCTCCCGGGGCCACCGGCCACCGCTGCC
CTGCCCCTGGAGGGTGGCCCCACCGGCCGAGACAGCGAGCATATGCAGGAAGCGGCAGGAATAAGGAAAA
GCAGCCTCCTGACTTTCCTCGCTTGGTGGTTTGAGTGGACCTCCCAGGCCAGTGCCGGGCCCTCATAGG
AGAGGAAGCCCGGGAGGTGGCCAGGCGGCAGGAAGGCGCACCCCCCCAGCAATCTGCCGCGCCGGACAGA

ATGCCCTGCAGGAACTTCTTCTGGAAGACCTTCTCCTCCTGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222197 representing NM_001302

Red=Cloning site Green=Tags(s)

MYRHKNSWRLGLKYPPSSKEETQVPKTLISGLPGRKSSSRVGEKLQSAHKMPLSPGLLLLLLSGATATAA LPLEGGPTGRDSEHMQEAAGIRKSSLLTFLAWWFEWTSQASAGPLIGEEAREVARRQEGAPPQQSARRDR

MPCRNFFWKTFSSCK

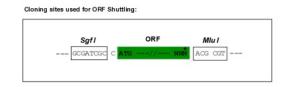
TRTRPLE - GFP Tag - V

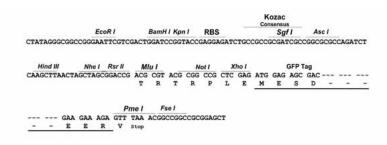
Restriction Sites: Sgfl-Mlul





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.

RefSeq: <u>NM 001302.2</u>

 RefSeq Size:
 948 bp

 RefSeq ORF:
 318 bp

 Locus ID:
 1325

 UniProt ID:
 000230



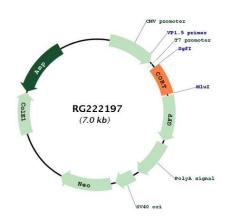
Cytogenetics: 1p36.22

Protein Families: Druggable Genome, Secreted Protein

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 GenelD:100526739. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG222197