

## Product datasheet for **MG215280**

### Cort (NM\_007745) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cort (NM\_007745) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cort  
**Synonyms:** CS; CST; PC; PCST  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG215280 representing NM\_007745  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGATGGGTGGCCGAGGCACAGGAGGCAAGTGGCCCTCAGCCTTCGGGCTGCTGCTCTGGGGGTCG  
CAGCCTCCGCCCTTCCCCTGGAGAGTGGCCCTACTGGCCAGGACAGTGTGCAGGAAGCCACCGAGGGGAG  
GAGCGCCTTCTGACTTTCCTTGCCTGGTGGCAGGAGTGGGCTTCCCAAGCCAGCTCCAGCACCCCGTC  
GGAGGGGTACCCCGGGCTGTCCAAGAGCCAGGAAAGGCCACCCCCCAACAGCCCCACACCTGGATA  
AAAAGCCCTGCAAGAACTTCTTGTGAAAACCTTCTCCTCGTGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215280 representing NM\_007745  
Red=Cloning site Green=Tags(s)  
MMGGRGTGGKWPFAFGLLLLWGVAASALPLESGPTGQDSVQEATEGRSGLLTFLAWWHEWASQASSSTPV  
GGGTPGLSKSQERPPPQPPHLDDKPKNFFWKTFSCK

**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1491\\_c05.zip](https://cdn.origene.com/chromatograms/ja1491_c05.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_007745

**ORF Size:** 327 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\\_007745.4](#), [NP\\_031771.1](#)

**RefSeq Size:** 498 bp

**RefSeq ORF:** 330 bp

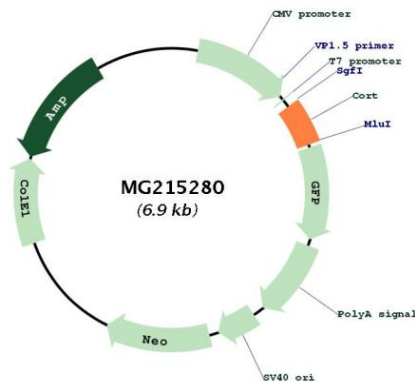
**Locus ID:** 12854

UniProt ID: [P56469](#)

Cytogenetics: 4 78.89 cM

**Gene Summary:** This gene encodes a member of the somatostatin family of multifunctional peptides attributed with neurohormone, neurotransmitter/modulator and autocrine/paracrine actions. The encoded preproprotein undergoes proteolytic processing to generate a mature functional peptide that can bind to somatostatin receptors. Mice lacking the encoded protein exhibit elevated levels of growth hormone in the plasma without major changes in somatic growth and have exacerbated nociceptive responses to neuropathic and inflammatory pain sensitization. Transgenic mice overexpressing the encoded protein in neurons do not express long-term potentiation in the dentate gyrus and exhibit deficits in synaptic plasticity and learning. [provided by RefSeq, Nov 2015]

**Product images:**



Circular map for MG215280