

Product datasheet for MR225611

Oxt (NM_011025) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Oxt (NM_011025) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Oxt

Synonyms: OT; Ox; Oxy

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR225611 representing NM_011025

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCTGCCCCAGTCTCGCTTGCTGCCTGCTTGGCTTACTGGCTCTGACCTCGGCCTGCTACATCCAGA ACTGCCCCCTGGGCGAAGAGGGCTGTGCTGGACCTGGACTATGCGCAAGTGTCTCCCCTGCGGCCCGGG CGGCAAAGGACGCTGCTTCGGACCAAGCATCTGCTGCGCGGACGAGGCTGCTTCGTGGGCACCGCC GAGGCGCTGCCGCTGCCAGGAGAGAACCACCTGCCTTCGCCCTGCCAGTCTGGCCAGAAGCCCTGCGGA GCGGAGGCCGCTGCCGCACAGGCACCCCGCCTGCCA

CCCTGAGTCTGCCTTCTCGGAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225611 representing NM_011025

Red=Cloning site Green=Tags(s)

MACPSLACCLLGLLALTSACYIONCPLGGKRAVLDLDMRKCLPCGPGGKGRCFGPSICCADELGCFVGTA

EALRCQEENYLPSPCQSGQKPCGSGGRCAATGICCSPDGCRTDPACDPESAFSER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007 h08.zip

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

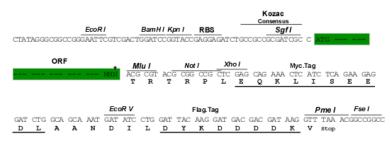
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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_011025

ORF Size: 375 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 011025.1, NM 011025.2, NM 011025.3, NM 011025.4, NP 035155.1

RefSeq Size: 471 bp
RefSeq ORF: 378 bp
Locus ID: 18429
UniProt ID: P35454

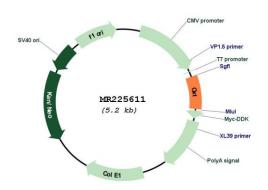


Cytogenetics: 2 63.24 cM MW: 13.3 kDa

Gene Summary: This gene encodes a preproprotein that is processed to produce oxytocin and neurophysin 1.

Oxytocin is a posterior pituitary hormone which is synthesized as an inactive precursor in the hypothalamus along with its carrier protein neurophysin 1. Together with neurophysin, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis, where it is either stored or secreted into the bloodstream. The precursor seems to be activated while it is being transported along the axon to the posterior pituitary. This hormone contracts smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation, the stress response and complex sexual and maternal behavior, as well as in the regulation of water excretion, salt appetite, blood pressure and cardiovascular functions. Deletion of this gene in mouse reduces bone formation resulting in osteoporosis. [provided by RefSeq, Dec 2013]

Product images:



Circular map for MR225611