

Product datasheet for MG225611

Oxt (NM_011025) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Oxt (NM_011025) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Oxt

Synonyms: OT; Ox; Oxy

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG225611 representing NM_011025

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCTGCCCAGTCTCGCTTGCTGCCTGCTTGGCTTACTGGCTCTGACCTCGGCCTGCTACATCCAGA
ACTGCCCCCTGGGCGGCAAGAGGGCTGTGCTGGACCTGGATATGCGCAAGTGTCTCCCCTGCGGCCCGGG
CGGCAAAGGACGCTGCTTCGGACCAAGCATCTGCTGCGCGGACGAGCTGGGCTGCTTCGTGGGCACCGCC
GAGGCGCTGCCGCCAGGAGGAGAACTACCTGCCTTCGCCCTGCCAGTCTGGCCAGAAGCCCTGCGGA
GCGGAGGCCGCTGCGCCCCACAGGCATCTGCTGCAGCCCGGATGGCTGCCGCACGGACCCCGCCTGCGA

CCCTGAGTCTGCCTTCTCGGAGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225611 representing NM_011025

Red=Cloning site Green=Tags(s)

MACPSLACCLLGLLALTSACYIQNCPLGGKRAVLDLDMRKCLPCGPGGKGRCFGPSICCADELGCFVGTA

EALRCQEENYLPSPCQSGQKPCGSGGRCAATGICCSPDGCRTDPACDPESAFSER

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



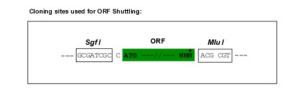
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

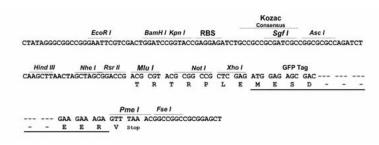
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

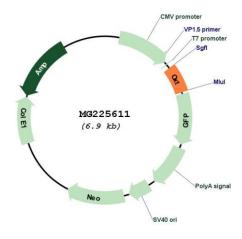


Cloning Scheme:





Plasmid Map:



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

Oxt (NM_011025) Mouse Tagged ORF Clone - MG225611

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 011025.3</u>, <u>NP 035155.1</u>

 RefSeq Size:
 471 bp

 RefSeq ORF:
 378 bp

 Locus ID:
 18429

 UniProt ID:
 P35454

 Cytogenetics:
 2 63.24 cM

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]