

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225611 representing NM_011025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGCCAGTCTCGCTTGCCTGCCTGGCTTACTGGCTCTGACCTCGGCCTGCTACATCCAGA
 ACTGCCCCCTGGCGGCAAGAGGGCTGTGCTGGACCTGGATATGCGCAAGTGTCTCCCCTGCGGCCCGGG
 CGGCAAAGGACGCTGCTTCGGACCAAGCATCTGCTGCGCGGACGAGCTGGGCTGCTTCGTGGGCACCGCC
 GAGGCGCTGCGTGCCAGGAGGAGAACTACCTGCCTTCGCCCTGCCAGTCTGGCCAGAAGCCTGCGGGA
 GCGGAGGCGCTGCGCCGCCACAGGCATCTGCTGCAGCCCGATGGCTGCCGCACGGACCCCGCCTGCGA
 CCCTGAGTCTGCCTTCTCGGAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225611 representing NM_011025
 Red=Cloning site Green=Tags(s)
 MACPSLACLLGLLALTSACYIQNCPLGGKRAVLDDLDMRKCLPCGPGGKGRFCGSPISCCADELGCVFVGT
 EALRCQEENYLPSPCQSQKPCGSGRCAATGICCCSPDGCRTDPACDPESAFSER

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_011025.3 , NP_035155.1
RefSeq Size:	471 bp
RefSeq ORF:	378 bp
Locus ID:	18429
UniProt ID:	P35454
Cytogenetics:	2 63.24 cM
Gene Summary:	<p>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]</p>