

Product datasheet for MC209130

Oxt (NM_011025) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oxt (NM_011025) Mouse Untagged Clone
Tag: Tag Free
Symbol: Oxt
Synonyms: OT; Ox; Oxy
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209130 representing NM_011025
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTGCCCCAGTCTCGTTGCTGCCTGCTTGCTTACTGGCTCTGACCTCGGCCTGCTACATCCAGA
ACTGCCCCCTGGCGGCAAGAGGGCTGTGCTGGACCTGGATATGCGCAAGTGTCTCCCCTCGGCCCGGG
CGGCAAAGGACGCTGCTTCGGACCAAGCATCTGCTGCGCGGACGAGCTGGGCTGCTTCGTGGGCACCGCC
GAGGCGCTGCGCTGCCAGGAGGAGAACTACCTGCCTTCGCCCTGCCAGTCTGGCCAGAAGCCCTGCGGGA
GCGGAGGCCGCTGCGCCGCCACAGGCATCTGCTGCAGCCCGGATGGCTGCCGCACAGACCCCGCCTGCGA
CCCTGAGTCTGCCTTCTCGGAGCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_011025
Insert Size: 378 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_011025.4](#), [NP_035155.1](#)

RefSeq Size: 555 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]