

Product datasheet for **RR205302**

Oxt (NM_012996) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oxt (NM_012996) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Oxt
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205302 representing NM_012996
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCTGCCCCAGTCTTGCTTGTGCTGCTTGGCTACTGGCTCTGACCTCCGCCTGCTACATCCAGA
 ACTGCCCCCTGGCGGCAAGAGGGCTGCGCTAGACCTGGATATGCGCAAGTGTCTTCCCTGCGGACCCGG
 CGGCAAAGGGCGCTGCTTCGGGCCGAGCATCTGCTGCGCGGACGAGCTGGGCTGCTTCGTGGGCACCGCC
 GAGGCGCTGCGCTGCCAGGAGGAGAACTACCTGCCCTCGCCCTGCCAGTCTGGCCAGAAGCCTTGC GGAA
 GCGGAGGCCGCTGCGCCACCGGGCATCTGCTGTAGCCCGGATGGCTGCCGCACCGACCCCGCCTGCGA
 CCTGAGTCTGCCTTCTCCGAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205302 representing NM_012996
 Red=Cloning site Green=Tags(s)

MACPSLACLLGLLALTSACYIQNCP LGGKRAALDLDMRKCLPCGPGGKGRFCGSPSICCADELGCFVGT
 EALRCQEENYLPSPCQSGQKPCGSGGRCATAGICCS PDGCRTPACDPESAFSER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

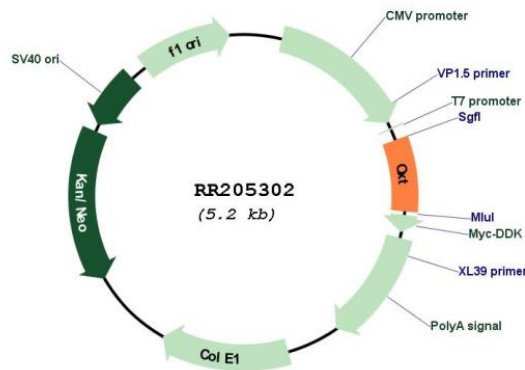


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Cloning Scheme:



Plasmid Map:



ACCN: NM_012996

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:	<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_012996.3 , NP_037128.1
RefSeq Size:	534 bp
RefSeq ORF:	378 bp
Locus ID:	25504
UniProt ID:	P01179
Cytogenetics:	3q36
MW:	12.8 kDa
Gene Summary:	hormone involved in contraction of smooth muscle during parturition and lactation; gene encodes two proteins, oxytocin and neurophysin I [RGD, Feb 2006]