

Product datasheet for **SC300150**

Oxytocin neurophysin 1 (OXT) (NM_000915) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxytocin neurophysin 1 (OXT) (NM_000915) Human Untagged Clone
Tag:	Tag Free
Symbol:	Oxytocin neurophysin 1
Synonyms:	OT; OT-NPI; OXT-NPI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000915 edited ATGGCCGGCCCCAGCCTCGCTTGTCTGTCTCGGCCTCCTGGCGCTGACCTCCGCCTGC TACATCCAGAAGTCCCCCTGGGAGGCAAGAGGGCCGCGCCGACCTCGACGTGCGCAAG TGCTCCCTGCGGCCCGGGGCAAGGCCGCTGCTTCGGGCCAATATCTGTGCGCG GAAGAGCTGGGTGCTTCGTGGGCACCGCCGAAGCGCTGCGCTGCCAGGAGGAGAACTAC CTGCCGTGCGCCTGCCAGTCCGGCCAGAAGGCGTGCAGGAGCGGGGCCGCTGCGCGGT TTGGGCTCTGCTGCAGCCGGACGGCTGCCACGCCACCCTGCCTGCGACGCGGAAGCC ACCTTCTCCAGCGCTGA
Restriction Sites:	Please inquire
ACCN:	NM_000915
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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_000915.2](#), [NP_000906.1](#)

RefSeq Size: 512 bp

RefSeq ORF: 378 bp

Locus ID: 5020

UniProt ID: [P01178](#)

Cytogenetics: 20p13

Protein Families: Secreted Protein

Gene Summary: This gene encodes a precursor protein that is processed to produce oxytocin and neurophysin I. Oxytocin is a posterior pituitary hormone which is synthesized as an inactive precursor in the hypothalamus along with its carrier protein neurophysin I. 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 and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions. [provided by RefSeq, Dec 2013]