

Product datasheet for **RG216621**

NOBOX (NM_001080413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NOBOX
Synonyms:	OG-2; OG2; OG2X; POF5; TCAG_12042
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216621 representing NM_001080413
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTCTCCTTTTGACACTAACATCACCAGACCTGGAGGGTACCTGGGACACCAGAGACAAGGATGGCT
 TCAAAGCCCAGGAGGGGCGCCCTGGCTGTACCTGAATTTCTGTGTGGACTGTACCGGATCTACGG
 AGTCTGTGGCTCTTTAGCTCCTTCTTCATCATCCGGTGCAGCCTTTGTGCTCTGGAGACCTCAAATCA
 CCCCACATGATCCCTTAGAGATACCTGAACAGTCCCTCAAACCTCATACCCCTGGTGTCTGGGAAAAGGG
 AACTCACAAGGGGCCAGAAAGCTGGAGAGAAGCCCTGGCTGCAGGACCCGGGAGGAGGAACTGCTCCG
 GGGCTCAGCCCTCATGCTCAGGACACTCAGAGTGAGGAAGTGCACCCCTCCTGCACCATCTCAGGAGAG
 AAGAAGCCGCCAGCAGTCTCTGGAGAAGCCACCGGGCTGATGCTGGGAGACTGTGCCCGCCCCCGCT
 CCAGGGCTCCCCACAAAGACAGAAGTCTAGCCCGCTCCAGGCCCCAGACTCAGGGGAAGATTGTTCCCT
 CCCAGTGGGAGAGGTGAAGATAGGAAAGAGGTCTATTCTCCAGCCCCGGGAAGCAGAAAAAGCCTAAT
 GCCATGGGTCTGGCCCCAACATCATCTCCGGTGCCCTAACTCAGCCCGTGCCACACACACCCAGTGC
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 TGGTTCCAGAATCGCCGGGCCAAGTGGCGAAAAATGGAGAACTGAATGGGAAAGAAAGCAAGGACAATC
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 GCCAAAGCCTGACCCTTTCCCTCAGGAGTCCCCTCTGGATACCTTTCCAGAGCCCCCATGCTGCTGACT
 TCTGACCAGACTTTGGCCCCCACCACCCAGTGAGGGTGTCTCAGAGGGTGGTACCCCCCACTTTCA
 GCCCCCACCTGTGCGAAGGGCCGATCTTCTTTCCCTTGGCCCTGTCCACACCCCCCACTGATGCC
 ACTGCTGATGGATGTTGCTGGCAGTGACAGCAGCCACAAGGACGGCCCCGTGGGTCTGGGGACAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

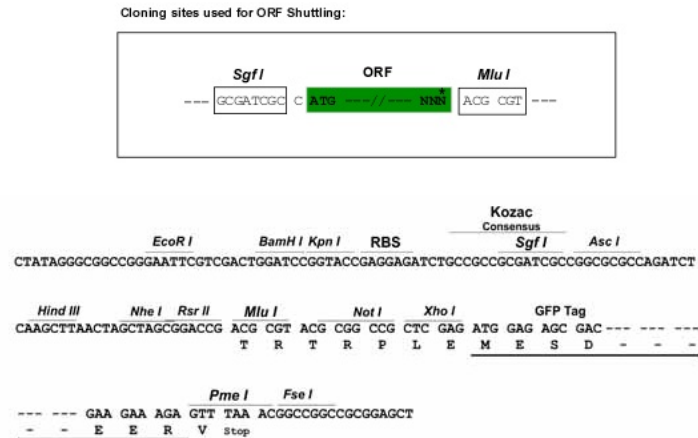
Protein Sequence: >RG216621 representing NM_001080413
 Red=Cloning site Green=Tags(s)

MALLLTLTSPDLEGTWDRDKDGFKAQEGPPLAVPEFPVCGLYRIYVCGSFSSFFIIRCSLCAETLKS
 PQHDPLEIPEQSLKLIPLVSGKRELTRGQKAGEKPLAAGPGEEELLRGSAPHAQDTQSEELPPSCTISGE
 KKPPAVSGEATGADAGRLCPPPRSRAPHKDRTLARSRPQTQGEDCSLPVGEVKIGKRSYSPAPGKQKKPN
 AMGLAPTSSPGAPNSARATHNPVPCGSGRGPCHLANLLSTLAQSNQNRDQGPPEVTCQIRKKTRTLR
 SDQLEELEKIFQEDHYPDSDKRREIAQTVGVTPQRIIMVKAGSLVAGWSGGPTIETLELQSERSAVAWV
 WFQNRRAKWRKMEKLNKESKDNPAAPGPASSQCSSAAEILPAVPMPEKPDPPQESPLDTFPEPPMLLT
 SDQTLAPTQPSGAQRVVTPLFSPPPVRADLPFPLGPVHTPQLMPLLMVAGSDSSHKDGPCCGSWGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080413

ORF Size: 1470 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:

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.

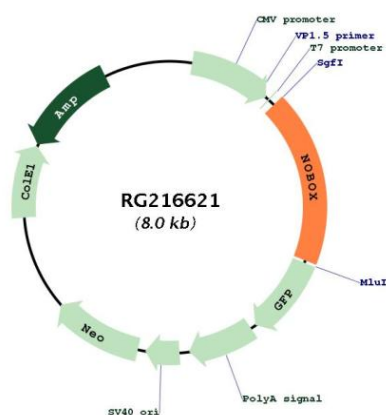
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001080413.1](#), [NP_001073882.1](#)

RefSeq Size: 1473 bp
RefSeq ORF: 2076 bp
Locus ID: 135935
UniProt ID: [O60393](#)
Cytogenetics: 7q35

Gene Summary: This homeobox gene encodes a transcription factor that is thought to play a role in oogenesis. In mice, it is essential for folliculogenesis and regulation of oocyte-specific genes. Defects in this gene result in premature ovarian failure type 5.[provided by RefSeq, May 2011]

Product images:



Circular map for RG216621