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Product datasheet for MG211646

Ubr2 (BC031403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubr2 (BC031403) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ubr2
Synonyms:	MGC36320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211646 representing BC031403
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGATAGAACATCCTCTTAGATGTCTTGTCTTATGTGCTCAAGTGCATGCTGGGATGTGGAGAAGAA
ATGGCTTCTCTCTAGTAAATCAGATCTATTACTACCATAATGTGAAATGCAGGCGAGAGATGTTCGACAA
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TCAAAAGACAGGACGAAAACCATCGCGGACCCAGAAAAATATGATCCATTATTCATGCACCCCGATCTGT
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GGTTTCGAAAGATCCAGAAGCTCTGGCAGCAGCATAGTATCACAGAGGAGATCGGACACGCGCAGGAGGC
TAACCAGACCCTGGTCGGAATTGACTGGCAGCATTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211646 representing BC031403
Red=Cloning site Green=Tags(s)

MLIEHPLRCLVLCAQVHAGMWRRNGFSLVNQIYYYHNVKCRREMFDKDIVMLQTGVSMMDPNHFLMIMLS
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LVGLVLAFPALQCQDFSGSSLATGDLHIFHLVTMAHIVQILLTSCTEENGMDQENPTGEEELAILSLHKT
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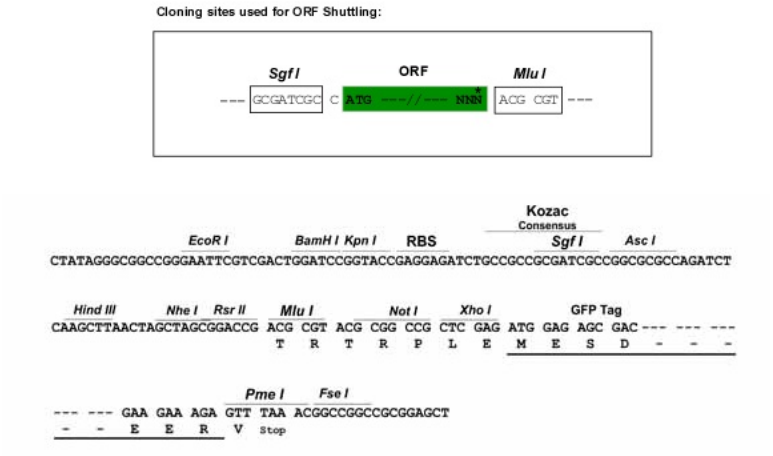
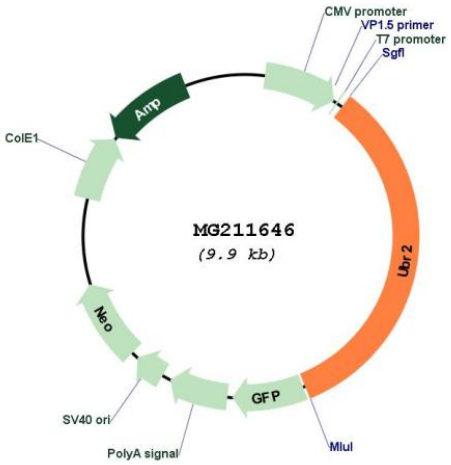
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	BC031403
ORF Size:	3330 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.
RefSeq:	BC031403.1
RefSeq Size:	3502 bp
RefSeq ORF:	3329 bp
Locus ID:	224826
Cytogenetics:	17 C
Gene Summary:	E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Recognizes and binds to proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation. Plays a critical role in chromatin inactivation and chromosome-wide transcriptional silencing during meiosis via ubiquitination of histone H2A. Binds leucine and is a negative regulator of the leucine-mTOR signaling pathway, thereby controlling cell growth (By similarity). Required for spermatogenesis, promotes, with Tex19.1, SPO11-dependent recombination foci to accumulate and drive robust homologous chromosome synapsis (PubMed:28708824). Polyubiquitinates LINE-1 retrotransposon encoded, LIRE1, which induces degradation, inhibiting LINE-1 retranstoposon mobilization (PubMed:28806172).[UniProtKB/Swiss-Prot Function]