

Product datasheet for **MG214790**

Ube2u (NM_001033773) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2u (NM_001033773) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ube2u
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG214790 representing NM_001033773, **codon optimized**.
Due to the complexity of NM_001033773, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTA**CTCAAAGCCTATATCCTCCTTGAACGCGAGTTCAGAGA**ACTTAAACGCGATACTAGAAAGGACA
 TAACTGCCTATCCCGTCAGCGACGATATGATGAACTGGAAGGCTGAGATCGAGGGACTGCGGAATAGCGT
 GTGTGAGGGCCTGGTGTCTATCTGACCCTGGAGTTCAGCCAGGAATATAACAGCGTGCCCCCTAACGTG
 AAGTTTACCACCATCCCATTTCACCTAACGTAGACCCCTACACAGGAAAACCGTCTATCGACTTCTCGG
 ACAAGCCAGGCAAGTGGAAACACAACTATACAGTGCTGTCCATACTGCTTATCAGATGTTGCTCAG
 CTATCCTGTTCTGAAGAACCCTGTGAACCTGAAGCAGCTCAATTGCTGATTAGAAACGCCTCCACTTAT
 AAGATGGTCATCCAGGAGCTGTTGCCACCCGCTTCTTAAGCGCGAAAGCTCTCTGTTATCCCAGAAA
 AGCCTCAGGATAGGGTTCGAGTCATCAAGACTATCAGTTTTAATGATTACTACAAGACCTGGTCACAGAT
 CGCAACGACCAAGGTCGCCGAACACTCTAGGAACCCCTTCGTGGGCGATCCTCATTTTATGGGCCAGTAC
 TACAAATGGAAACAACAGGACAGGCAGAACAGGTACAGTGGGAATCCAAGTTCGCCCTGTCCAAGTGGC
 AGACAGCTCGCAAAAAGATTATGGCACAGGAGAAATCCAATCACTATAACCAGTTATCGGCATCTACCC
 TTCCCCTAGCGAGCTGTCTTTTGTAGTACGAGATTGAGGAAGAGGAAGAGGAGGAGGAAGAAGAGCCTAG
 AATTTATCAGATTCCTCAGGAGTGGCCTGAAGAGCACGACTCAAGGAGAGCTGGGAGGAAGAGCCGATCAT
 CTCTGAGTTGGACCAATGGCTTGATGAAGAATCACTCAACTATGAGTACTTCGACAATGTTAAAAATTATGAG
 AACCTGGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG214790 representing NM_001033773
 Red=Cloning site Green=Tags(s)

MYSKAYILLEREFRELKRDTRKDITAYPVSDMMNWKAEIEGLRNSVCEGLVFYLTLEFSQEYNSVPPNV
 KFTTIPFHPNVDPYTGKPSIDFLDKPGKWNTNYTVLSILLDLQMLLSYPVLKNPVNLEAAQLLIRNASTY
 KMVIQELLPPALPKRESSLVIPEKPQDRVRVIKTI SFNDYKTSQIATTKVAEHSRNPFGDPHFMGQY
 YKWKQQRQNVQWESKFALSKWQTARKKIMAEKSNHYNQVIGIYSPSELSEFEYEIEEEEEEEEEEEEE
 EEEEEEEEEEEEEEPRIYQIQEWPEEHDSKESWEEEDHLSVWNTGLDEESLNYEYFDNVKNYENL
 GN

TRTRPLE - GFP Tag - V

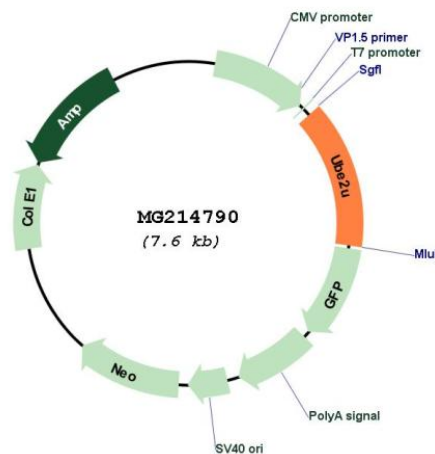
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033773

ORF Size: 1056 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:	<u>NM_001033773.4, NP_001028945.2</u>
RefSeq Size:	1517 bp
RefSeq ORF:	1059 bp
Locus ID:	381534
Cytogenetics:	4 C6