

Product datasheet for **MG205171**

BC003331 (BC003331) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	BC003331
Synonyms:	MGC7150
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG205171 representing BC003331
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTCCCTGGAGGACTTGTGGTTCTTGAATATTTATTATCACAACTTTAGAACTAGCAGATGATTTTC
AAAAATGCCCTGCGCAGACTAATATTTCTATGGAAAAATCTATGAGTAGAAAAAGACTATGGGATGTCAC
AGAGGACGAGGTCTCAGAACGAGTGACACTTCACATTTGTTCTTCTACAAAAAATATCTTGTCGAACT
TACGATGTCCAAGATCCAAGAGTTTCAGCAAGACCCGAGATTGGAAGTATCAGAGTAGAGTGTCTGCCT
CATGGCTGTCTCTAGACTGTACTGTTACGTTAACATTACATCCCACTGTCGGCTACTTCTGTCAAGTTA
CACTCTGGAACAAAAACAAAGAGTGGACTTACACGCTGGGCCAAGCAATAGAAAAATGGTGTATCTG
ATTAATGGACAAGTTAAAGGCAACGATTGTGACTTATTAGAAGGACAGCTCCTGAATTCGGACCACAGAT
CCACAGCCACAGTCCAATCTGCAGTGGTTCTGTAATCTTCGGGAAATGTGAATGCAGAGCTTATAT
CCATAGCAACAGACCCAAGGTTAAAGATGCTGTGCAGGCAAGTGAAGAGAGATATTTGAACACAGTTGCT
GATCGCTGTGAAATACTCTTTGAGGACCTGCTTCTGAATGAAATCCAGAAAAAATTTATGAATTC
CTCAGAGAGTTTTTGTCCCTTCTGGATCTACTGTAATGTTATGTGACTATAAGTTTGGTGATGAATC
AGCTGAAGAAATCAGAGACCATTTTTCAGAGATGTTAGATCATGAGATTCAAATAGAAGACTTGGAAAT
GCAGAGGAAGTAAACACAGCTTGCATGACTTCCTCTGTGAATAGTGAGGCTTCACTGACCAACACAAGT
AAGAACAACCAACAACCAAAAAAACCATAGGAGTGAATTCAGAAAAACATAGGTGTGATCGCAGC
ACTAGCTGTGCAGTGCTTGTGCGGGCATCTCCTCCATTACTTCAGTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG205171 representing BC003331
Red=Cloning site Green=Tags(s)

MLPGGLVVLGIFIITTTLELADDFQNALRRLIFSMEKSMRKRLWDVTEDEVSEKVTLHICSTTKKISCRT
YDVQDPKSSARPADWKYQSRVSASWLSLDCVHVNIHIPLSATSVSYTLEKNTKSGLTRWAKQIENGVYL
INGQVKGNDCDLLEGQLLNSDHRSTATVQICSGSVNLGRNVKCRAYIHSNRPKVKDAVQAVKRDILNTVA
DRCEILFEDLLLNEIPEKKNYELPQRVFPVPLPGSTVMLCDYKFGDESAEEIRDHFSEMLDHEIQIEDLEI
AEEVNTACMTSSVNSEASLTNTSEEQPEQPKKTIGVKIQNIGVIAALAVAVLAAGISFHYFSD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: BC003331

ORF Size: 1032 bp

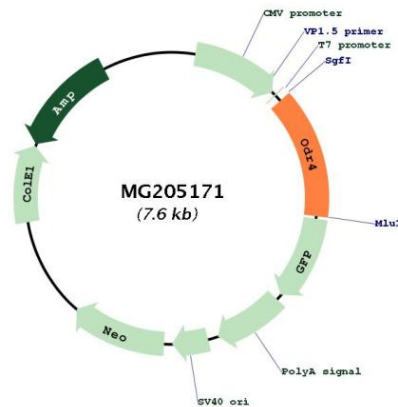
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	BC003331 , AAH03331
RefSeq Size:	1621 bp
RefSeq ORF:	1034 bp
Locus ID:	226499
Cytogenetics:	1 G1
Gene Summary:	May play a role in the trafficking of a subset of G-protein coupled receptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205171