

Product datasheet for **MG214636**

Gm14139 (NM_001145863) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gm14139
Synonyms:	OTTMUSG00000015769
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG214636 representing NM_001145863, codon optimized.

Due to the complexity of NM_001145863, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCGAGTCACCTACGACGACGTGCACGTGAATTTACTAGGGAAGAGTGGGCTCTCTTGGATAGCA
GCCAGAAAAACCTGTATAAAGAGGTAATGCCTCGAAACATATCGCAATCTCGCTGCAATTGGTTACGTGTG
GGAGGACCACAATACCGAGGAGCATCTCCACATCTCTCGGAGATACGGACGCCACGAACGAAGCCACACC
GAGCAGCTCCTGAGCGAGTTTATCCAGTGCATGAGGCTTTTCGCTTTCCAGAGCCACAATCAAAGGCAAG
AGAGGATTCACACCGCAGAAAACCCATACGAATGCAACCAATGTGGAAAATCCTTCGCTAGGAAATCCCA
TTTGCTCAGGCACAAGCGGACACACACCGGCGAGAAAACCCCTTCAGTGTCTACCAAGTGTGAAAAGACCTC
GCCCGAAACACCCACCTCCTTCAGCACAAGAAGGTTTCACACAGGTGAAAAGCCTTATGAATGCAACATT
GTGATAAAGCTTCGTTTGTATATCGGATTGCTTACCATAAAAGAACCACGCCGGGCAGAGGCTTA
TGAATGGAATGAGTGTGGAAAGAGTATTGTGTATCACAGCTGCATCAAACAGTGCAAAACGGAGACACACA
GGTGAAGGCTTTTGTGAGTGAACAGTGTGGCAAGTCTTTCGCACGCAAAAAGCAACCTGCTCAGGCATA
AGCGGATCCATACTGGGAGAAAACCTTACAATGCGACCAAGTGTGGGAAGGATTTTCGCTTCTCCAGCTC
TCTGAAGTGCATAAAAAGAGTGCACACCGGCGAGAACCCTTACGAGTGCAAACAGTGTGCAAGGCATTT
GCACGCCTCTCCATATTGAGGACCCACAAGCGCACCCACACGGGCGAGAAGCCCTTTGAGTGAACGAGT
GTGGCAAGAGCTTCGCTCGAAAAGTCTCACCTCCTGCGACATAAAGAGGATACACACCGGCGAAAAGCCTTA
CAAGTGCAGCAGTGTGGCAAAGATCTGGCCTGCCAAATAGCCTCCAGTATCATAAAAAGGGTGCATACC
GGAGAGAAGAGTACGAATGTAAAGCAATGTGGCAAGGCCTTCGCTTTTCCACTTCTTGGCAGTCCATA
AGCGAACTCACACAGGGGAAAAGCCTTACGAGTGCATCAAGTGCAGGAAAGCTTTTCAGTTCTCCAGCGG
ATTTCTGTATCACAAAGCAGACCATAACCGGCGAACGCCCTACGAGTGCACAGTGCAGGGAAGAGTTTTT
ATCCACAGATCAAATTTCCAGATGCACAAGAGGACTCACACTGGGAGAAAGCCTTTCGAGTGTGATCAGT
GTGGCAAATCATTGCTCAAATACGTACCTCCTGCAGCACAAGCGGGTGCATACGGGCGAAAAGCCTTA
CGAGTGAAGCACTGCGGGAAGCCTTTGCTTACAGTAATAATCTCAGAGTGCACATTTCGCACGCATACA
AAATATCTGGTGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG214636 representing NM_001145863

Red=Cloning site Green=Tags(s)

MGRVTVDDVHVNFTREEWALLDSSQKNLYKEVMLETYRNLAAGYVWEDHNTTEHLHSRRYGRHERSHT
EQLLSEFIQCDKAFQSHNQRIHTAETPYECNQCGKSFARKSHLLRHKRTHHTGKPFQCYQCGKTL
ARNTHLLQHKVHTGKPYECKHCDKASVCHIGLLYHKRTHAGQRPYEWNECGKSIYVHSCIKQCKRRHT
GKPFECNQCGKSFARKSNLLRHKRIHTGKPYKCDQCGKDFASPSLKCHKRVHTGENPYECKQCGKAF
ARLSILRTHKRTHHTGKPFECNECGKSFARKSHLLRHKRIHTGKPYKCDQCGKDLACPNLSQYHKRVHT
GKSYECKQCGKAFSTSLRIHKRTHHTGKPYECNQCGKAFSSPSGLYHKQTHHTGERPYECNECGKSF
IHRNFMHHRTHHTGKPFECQCGKSFQNTYLLQHKRVHTGKPYECKHCGKAFAYSNNLRVHIRTHT
KYLWV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145863

ORF Size: 1485 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:

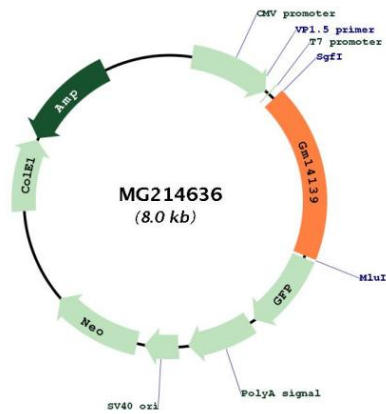
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001145863.1](#), [NP_001139335.1](#)

RefSeq Size: 1728 bp
 RefSeq ORF: 1488 bp
 Locus ID: 100271882
 Cytogenetics: 2 G3

Product images:



Circular map for MG214636