

Product datasheet for **MG214739**

Zfp846 (NM_172919) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Zfp846
Synonyms:	2210010B09Rik; 9130221F13; Znf846
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG214739 representing NM_172919, *codon optimized*.
 Due to the complexity of NM_172919, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTCGCCGACTGTTTGACAAATTGCTATCAGGTGTCTGTTACTTTTGTGACGTGGCTGTGCGATTCA
 CGCAGGAAGAGTGGATTCTGTTGGATCAAGCACACCGGGACCTGTACAGAGAAGTGATGCTGGAGAACTA
 CCAGAACCTGGCTAGCGCCGGATGCGAAGTGATCAAGCCTTCACTCATCTCTTGGCTGGAGGAGGAAGAT
 CTTACAGAGAGGACCTGCAGGAATGGGAGATGCCCTTGGGAACCCAGGAATCTCCGCTTCATCAGGATT
 TCCTGCGCGGACAGACATCAAGCGGAATCCAAACCGGGAGGTCACACAGTGCTCAGAACTGTGCTACTA
 CACTCAATGCGGAGAGATTTTTAGCGAGCATAGCTACTTTAAAACACACGTTAAAACACATTCTGCATGG
 AACACTGGCCACCTTACTCACTCAGACCACGACGTATCAGCTCAGGTGCACACAATCAAGACCTACCCCTT
 GCAAGATTTGCGGAAAGCTTTTGGGCGGAGTTCTAATCTGAACAGGCACCTCCGGTCCCACACCGGAGA
 AAAACCTTATGAGTGCAAGGAGTGGGCAAGCCTTTACCACATACTCAAGTTGGTGAACACTTCCGC
 ACACACACAGGGGAGAAAACCTTATAAGTGCAAGGATTGTGGTAAAGCCTTTGCCAAACGGTCTGGGCTCA
 TAACCCACATCAGCACTCATGCCTCCGAGAAGCCTTTTGCCTGCAAGGAGTGGGAAAGCTTTGCAAG
 CAGTCAAGGCTGTCTCAGCATATCAGAATTCATTAGGGGAGAGGCCATACATTTGTAAGGAATGCGGG
 CGCGCTTTTCTGACGTCTCTATCTTAGGAATCATGTTGGCCGGACACATTAGGTGAGCGGCCTTATA
 TTTGCGGGGAGTGTGGCAAGGCTTTTCACTCATATTCTAATCTCAGACGGCATGTGAGGACACACAGTGG
 CGAACGACCGTACATTTGCAAGGAATGCGGAAAGCCTTTCTGAACTCATCATACTGCATAAACACATC
 AGGAAAACGCACAGTGGCGAAATGCCACATATCTGTGGAGAATGCGGAAAGTCTTTCACGCCTCTTCAT
 ATCTGCGCAGACACCTCCGACTCACTCCGGAGAAAGCCCTGCATTTGCAAGGAGTGGGAAAAGCTTT
 TCTTAATCAAGCTATCTGAGAAAGCACCTGACTATCCATACTGGCGACAAGCCCTATGAGTGCAAGGAG
 TGTGAAAGGCTACCGCCGATACAACCTGCTCCACGACCATCTAAAACCTCATGCCGTAGAAAAGCCTT
 TTGAGTGGCAGCTGCGGAAAATCTTTTCAATATTTTCTACCTGAACAAGCACATTAGGATCCACAC
 AGGGACAAAACCGTACAAGTGAAGTATTGCGGAAAGGATTACCACGTCATCTAGTAGAACAGAGCAC
 ATCCGCACTCACACTGGCGAACGGCCATACGAGTGTAGTGAATGCGAAAAGACCTTCACTTCTCTCCCA
 ATCTTATACATCATGTGAAGATCCACGCTAGAGAGAAAACCTTTCGTTGAAAACATAGGGAAGCCTACAGT
 AGACTTCCCATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214739 representing NM_172919
 Red=Cloning site Green=Tags(s)

MVADCLTNCYQVSVTFDDVAVDFTQEEWILLDQAHRDLYREVMLENYQNLASAGCEVIKPSLISWLEED
 LHREDLQEWEMPLGTQESPLHQDFLRGQTSSGIQTGRSHSAHELCTYTCGEIFSEHSYFKTHVKTHSAW
 NTGHLTHSDHDVSAQVHTIKTYPCIKGKAFGRSSNLNRHLRSHTGEKPYECKEKGKAFSTYSRLVEHFR
 THTGEKPYCKDCGKAFKRSLITHISTHASEKPFACKECKGKAFASSPRLSQHIRIHSGERPYICEKCG
 RAFLTSSYLNRHVGRTHSGERPICGECGKAFHSYSNLRHVRTHSGERPICKCKGKAFNLSSYLHNHI
 RKTHSGEMPHICGECGKVFHASSYLRRHLRTHSGERPICKCKGKAFNLSSYLKRHLTIHTGDKPYECKE
 CGKAYRRYNLLHDHLKTHAVEKPFECDCVCGKSFQYFSLNKHIRIHTGKPYCKYCGKDFTTSSSRTEH
 IRTHTGERPYECSEKFTFTSSNLIHVKIHAREKPFVENIGKPTVDFPY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172919

ORF Size: 1623 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:

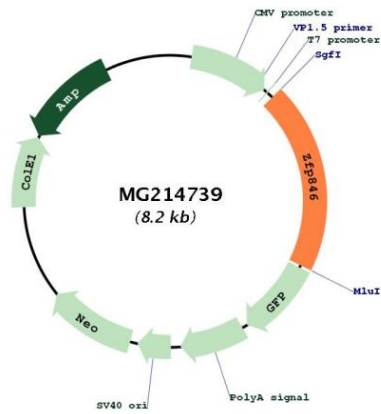
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_172919.2](#), [NP_766507.2](#)

RefSeq Size: 2755 bp
 RefSeq ORF: 1626 bp
 Locus ID: 244721
 Cytogenetics: 9 A3

Product images:



Circular map for MG214739