

Product datasheet for **MG219158**

Zfand2b (NM_026846) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfand2b (NM_026846) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zfand2b
Synonyms:	1110060O18Rik; C81256
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219158 representing NM_026846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCCGGACCTCGGGCTCACTGTTCCGAGCCGAGCTGTCAGCGCTTGGATTTTTGCCACTCA
AGTGCGATGCCTGCTCGGGCATTTCTGCGCAGACCATGTGGCCTACGCCAGCATCACTGTGGATCAGC
TTACAAAAGGATATCCAGGTACCTGTGTGCCCTCTCTGTAATGTGCCTGTGCCGTGGCCAGAGGAGAG
CCTCCTGACCGTGCTGTGGGAGAGCACATTGACAGAGACTGTCGTTCTGACCCAGCACAGAAAAACGCA
AGATCTTCACCAATAAGTGTGAACGTTCTGGCTGCCGGCAGCGGAGATGATGAAACTGACTTGTGATCG
CTGTGGCCGAAACTTCTGCATCAAGCACCGTCATCCCCTGGACCATGAATGCTCTGGGGAAGGTCATCAG
ACCAGCAGGGCAGGGCTTGTGCTATTTCTAGAGCACAAGGTCTGGCTTCTACAAGCACCCGCCAGTC
CAAGCCGACCTTGCCTTCATCATCCTCCCAAGCAGAGTACACCCAGCTTCCAACCAGGACAGCCTC
TCCTGTTATTGCTTGCAGAATGGCTTGAGTGAGGATGAGGCCCTGCAGCGTGCCCTGGAAGTGTCCCTT
GCGGAGGCTAAACCCAGGTTCTAAGTTCTCAGGAGGAAGACGACTTGCGGTTAGCACAGGCACTGTCAG
CCAGTGAGGCAGAATACCAACAGCAGCAGGCGCAGAGTCGTAGCTTGAAGCCGTCCTCAACTGCAGCCTGTG
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219158 representing NM_026846
 Red=Cloning site Green=Tags(s)

MEFPDLGAHCSEPSQRLDFLPLKCDACSGIFCADHVAYAQHHCGSAYQKDIQVPVPCPLCNVPVPVARGE
 PPDRAVGEHIDRDCRSDPAQQRKIFTNKCERSGCRQREMMKLTCDRCGRNFCIKHRHPLDHECSGEGHQ
 TSRAGLAATISRAQGLASTSTAPSPSRTLPSSSSSSRATPQLPRTTASPVIALQNLSEDEALQRALELSL
 AEAKPQVLSQEEDDLALAQALSASEAEYQQQAQSRSLKPSNCSLC

TRTRPLE - GFP Tag - V

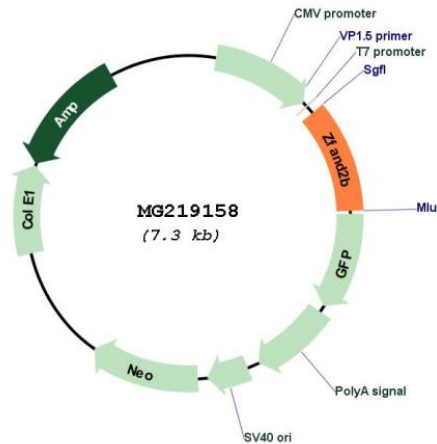
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_026846

ORF Size: 771 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:	NM_026846.3 , NP_081122.2
RefSeq Size:	1240 bp
RefSeq ORF:	774 bp
Locus ID:	68818
UniProt ID:	Q91X58
Cytogenetics:	1 C4
Gene Summary:	Plays a role in protein homeostasis by regulating both the translocation and the ubiquitin-mediated proteasomal degradation of nascent proteins at the endoplasmic reticulum (PubMed:24160817, PubMed:26337389, PubMed:26692333). It is involved in the regulation of signal-mediated translocation of proteins into the endoplasmic reticulum (PubMed:24160817). It also plays a role in the ubiquitin-mediated proteasomal degradation of proteins for which signal-mediated translocation to the endoplasmic reticulum has failed (PubMed:18467495, PubMed:26337389). May therefore function in the endoplasmic reticulum stress-induced pre-emptive quality control, a mechanism that selectively attenuates the translocation of newly synthesized proteins into the endoplasmic reticulum and reroutes them to the cytosol for proteasomal degradation (PubMed:24160817, PubMed:26337389). By controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like growth factor receptor signaling pathway (PubMed:26692333).[UniProtKB/Swiss-Prot Function]