

Product datasheet for **MR217148**

Zfand2b (NM_001159906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfand2b (NM_001159906) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfand2b
Synonyms:	1110060O18Rik; C81256
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217148 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGTTTCCGGACCTCGGGGCTCACTGTTCCGAGCCGAGCTGTCAGCGCTTGGATTTTTTGCCTCA
AGTGCGATGCCTGCTCGGGCATCTTCTGCGCAGACCATGTGGCCTACGCCAGCATCACTGTGGATCAGC
TTACAAAAGGATATCCAGGTACCTGTGTGCCCTCTCTGTAATGTGCCTGTGCCGTGGCCAGAGGAGAG
CCTCTGACCGTGTGTGGGAGAGCACATTGACAGAGACTGTCGTTCTGACCCAGCACAGCAAAAACGCA
AGATCTTCACCAATAAGTGTGAACGTTCTGGCTGCCGGCAGCGGAGATGATGAAACTGACTTGTGATCG
CTGTGGCCGAAACTTCTGCATCAAGCACCGTCATCCCCTGGACCATGAATGCTCTGGGGAAGGTCATCAG
ACCAGCAGGGCAGGGCTTGTGCTATTTCTAGAGCACAAGGTCTGGCTTCTACAAGCACCCGCCAGTC
CAAGCCGGACCTTGCCTTCATCATCCTCCCAAGCAGAGCTACACCCAGCTTCCAACCAGGACAGCCTC
TCCTGTTATTGCTTTGCAGAATGGCTTGAGTGAGGATGAGGCCCTGCAGCGTGCCCTGGAAGTGTCCCTT
GCGGAGGCTAAACCCAGGTTCTAAGTTCTCAGGAGGAAGACGACTTGGCGTTAGCACAGGCACTGTCAG
CCAGTGAGGCAGAATACCAACAGCAGCAGGCGCAGAGTCGTAGCTTGAAGCCGTCCTCAACTGCAGCCTGTG
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217148 protein sequence
Red=Cloning site Green=Tags(s)

MEFPDLGAHCSEPSQRLDFLPLKCDACSGIFCADHVAYAQHHCGSAYQKDIQVPVPCPLCNVPVPVARGE
 PPDRAVGEHIDRDCRSDPAQQRKIFTNKCERSGCRQREMMKLTCDRCGRNFCEIKHRHPLDHECSGEGHQ
 TSRAGLAAISRAQGLASTSTAPSPSRTLPSSSSPSRATPQLPRTASPVIALQNLSEDEALQRALELSL
 AEAKPQVLSQEEDDLALAQALSASEAEYQQQAQSRSLKPSNCSLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159906

ORF Size: 774 bp

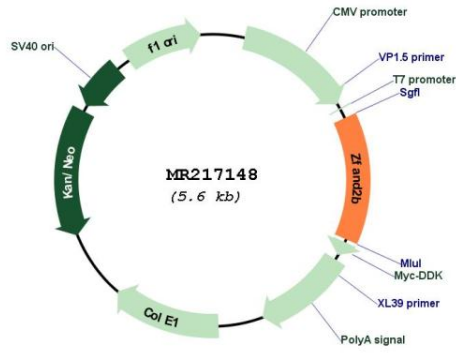
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001159906.1 , NP_001153378.1
RefSeq Size:	1203 bp
RefSeq ORF:	774 bp
Locus ID:	68818
UniProt ID:	Q91X58
Cytogenetics:	1 C4
MW:	27.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR217148