

Product datasheet for RN209349

Zfand2b (NM_001025745) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfand2b (NM_001025745) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Zfand2b
Synonyms:	RGD1306260
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209349 representing NM_001025745 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGTTTCCGGACCTCGGGGCTCACTGTTCCGAGCCGAGCTGTCAGCGCTTGGATTTTTTGCCTCA
AATGCGATGCCTGCTCCGGCATCTTCTGCGCAGACCATGTGGCCTACGCCATCATCACTGTGGATCAGC
TTACCAAAGGATATCCAGGTACCTGTGTGCCGCTCTGTAATGTGCTGTGCCGTAGCCAGAGGGGAG
CCTCCTGACCGGGCCGTAGGAGAGCATATTGACAGAGACTGTCGCTCTGATCCGGCACAGCAAAACGCA
AGATCTTCACCAATAAGTGTGAACGATCTGGCTGCCGGCAGCAGAGATGATGAAACTGACTTGTGACCG
CTGTGGCCGAAATTTCTGCATCAAGCACCGTCACCCACTGGACCATGATTGCTCTGGTGAAGGTCATCCG
ACCAGCCGGGCAGGGCTTGTGCTATCTCCAGAGCACAAGGTCTGGCTTCTACAAGCACTGTCCCCAGTC
CAAGTCGGACCTTGCCTTCGTATCCTCCCCAGCAGAGCCACACCCAGCTTCCACCCAGGACAACCTC
TCCAGTTATTGCTTTCAGAAATGGCTTGAGTGAGGACGAGGCCCTGCAGCGTGCCCTGGAATATCCCTT
GCGGAGGCTAAACCCAGATCCCAAGTTCTCAAGAGGAAGAAGACCTGGCGTTAGCACAGGCGCTGTGAG
CCAGTGAGGCAGAGTACCAACAGCAGCAGGCGCAGAGCCGTAGCTTGAAGCCGTCCAACCTGCAGCCTGTG
CTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001025745
Insert Size:	774 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001025745.1</u> , <u>NP_001020916.1</u>
RefSeq Size:	1320 bp
RefSeq ORF:	774 bp
Locus ID:	363253
UniProt ID:	<u>Q4KLG9</u>
Cytogenetics:	9q33
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. It is involved in the regulation of signal-mediated translocation of proteins into the endoplasmic reticulum. It also plays a role in the ubiquitin-mediated proteasomal degradation of proteins for which signal-mediated translocation to the endoplasmic reticulum has failed. 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. By controlling the steady-state expression of the IGF1R receptor, indirectly regulates the insulin-like growth factor receptor signaling pathway.[UniProtKB/Swiss-Prot Function]