

Product datasheet for **RG221731**

ZAR1 (NM_175619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZAR1 (NM_175619) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZAR1
Synonyms:	Z3CXXC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221731 representing NM_175619 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTGGGGACGAGGTGCTGGACGGTTACGTGTTCCCGCGTGCCCCCTGCTCGTACCGGT
ACCCATACCCCGCGGCCACCAAGGGCAAGGGCGCGCGGGCGGCAGCTGGCAGCAGCGCGGCAGGGGCTG
CCTTCCCGCTCCTCCCCCTGCTCGGCGGGCGCGGCTCGTTGTCCTTCCCGGGTGGGGCGGCTGACG
GCCGCCGAGTACTTCGACAGCTACCAGCGGGAGCGGCTCATGGCTCTCCTGGCGCAGGTGGGGCCGGTCTC
TCGGGCCGCGCGCCGCGAGGGCCGCGAGCTGCGACGTGGCGGTGCAGGTGAGCCCGCGCATCGACGCCGC
GGTACAGTGCTCGCTGGGAGGCGCACGCTGCAGCGCCGGGCCCGGACCCCGAGTCCCCGGCCGGCCCC
GGGGCCGAGGGCACACGGGTGGCGGCTCTTCTCCCAGCAGCCATCCCGTCGAGGCCTGGAGCAGGGCA
GCCCCAGAACGGCGCCCCGCGGCCCATGCGCTTCCCGCGCACCGTCGCCGTGTACTCGCCCTGGCCTT
GCGCCGTCTACCGCCTTCTGGAGGGGCGCGGCCCGCGCGGGCGAGCAGAGGTCCGGGGCGTCGGAC
GGAGAGAGGGGGCCGCCCGCGCGGCTTCAAGGCCAGAGGAGGGGAGGTGTGGACGAAGAAGGCGC
CCCGCGGCCGCGAGTCCGACGACGACGGCGAGGCCAGGCCGAGTCCGAGCGAGCTGGGAGCAGCCGGC
CGACGGTCCCGAGTCCCGCCGCGAGAGGCCAGGAGGGCGAGGCGGCTCCGCGGTGGCGCTAAGGAGC
CCGGGGCAACCTCCGTGCGCGGGGAGGGCCGAGACGGCGCGACGAGCGGAGGCGGCCGTCGCGGGAG
AGGGGCCGTGCGCACGGAGCCCGAGCTGGGCAAGGAGCGGCTGCGCTTCCAGTTCTTAGAGCAGAAATA
TGCTATTACCACTGCAAGGACTGCAACATCCGCTGGGAGAGTGCTTATGTGTGTGTGTACAGGGAAT
AACAAGGTTTACTTCAAACAGTTTGCAGAACTTGTGAGAAGTCTTATAACCTTACCGAGTGGAGGATA
TCACCTGTCAAAGTTGTAACAAACGAGATGTTCTGCCAGTAAACTTCGCCACGTGGACCCTAAACG
GCCCCACCGTCAAGATTGTGCGGTAGATGCAAAGGCAAACGCCTGTCTGTGACAGCACTTTCAGCTTC
AAATACATCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221731 representing NM_175619
 Red=Cloning site Green=Tags(s)

MAALGDEVLDGYVPACPPCSYRYPYPAATKGKGAAGGSWQQRGRGCLPASSPCSAGAASLSFPGCGRLT
 AAEIFDSYQERLMALLAQVGPGLGPRARRAGSCDVAVQVSPRIDAAVQCSLGRRTLQRRARDPESAGP
 GAEGTTGGGSFSQQPSRRGLEQGSPPQNGAPRPMRFPTVAVYSPLALRRLTAFLEGPGPAAGEQRSGASD
 GERGPPPARLQGP EEGEVWTKAPRRPQSDDDGEAQA AVRASWEQPADGPELPPREAQEGEAAPRSALRS
 PGQPPSAGRARDGGDGREAAVAGEGPSRSPSELGKERLRFQFLEQKYGYHCKDCNIRWESAYVWCVQGT
 NKVYFKQFCRTCQKSYNPHYRVEDITCQSKQTRCSCPVKLRHVDPKRPHRQDLCGRCKGKRLSCDSTFSF
 KYII

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_175619

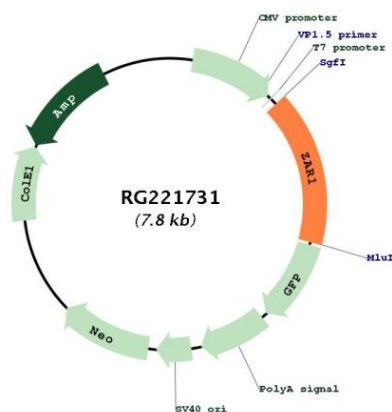
ORF Size: 1272 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.
RefSeq:	<u>NM_175619.3</u>
RefSeq Size:	1438 bp
RefSeq ORF:	1275 bp
Locus ID:	326340
UniProt ID:	<u>Q86SH2</u>
Cytogenetics:	4p11
Gene Summary:	This maternal effect gene is oocyte-specific and encodes a protein that is thought to function in the initiation of embryogenesis. A similar protein in mouse is required for female fertility. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG221731