

## Product datasheet for **RG228942**

### ZIM2 (NM\_001146327) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZIM2 (NM_001146327) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZIM2
Synonyms:	ZNF656
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG228942 representing NM\_001146327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACCAACAGAACGACACAACAGTGACGTGACCAGTGACGACGACATGACCCGGAACAGAAGAG  
 AGTCTCACACCTCACTCAGTCCATTCTTTCAGTGGTGACCGGACTGGGACCGGAGGGGAGAAAGCAG  
 AGACATGGAGCCACGAGACCGCTGGTCCACACCAGGAACCCAAGAAGCAGGATGCCTCCGCGGGATCTT  
 TCCCTTCTGTGGTGGCGAAAACAAGCTTTGAAATGGACAGAGAGGACGACAGGGACTCCAGGGCTATG  
 AGTCCCGATCTCAGGATGCTGAATCATACCAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACA  
 CACAATCCAGGACAACATGGAAGTACAGGAAGCTGCTCTCCCTCGTTTCTTGTCTCAGGACTCTGTC  
 CCTGCAGAAAAGAGGAACACAGAGATGTTAGACAATCTGCCATCTGCTGGTCCCAGTTCGCGGACTTCA  
 AACACTTAGGAACATTTCTGGTGTGAGGAGTTGGTGACCTTCGAGGATGTGCTTGTGGACTTCAGCCC  
 AGAGGAACCTAGCTCCCTTAGTGTCTCAGAGAAACCTCTACAGGGAGGTGATGCTGGAGAATTACCGG  
 AACCTGGTCTCCCTGGGGCACCAGTTCTCTAACTGACATTATCTCACGCCTGGAAGAGGAGGAATCAT  
 ATGCAATGGAGACAGACAGCAGACATACAGTGATTTGTCAAGGAGAGTCTCATGATGATCCATTGGAAC  
 ACACCAGGGCAACCAAGAGAACTTTTACTCCTATAACAATGAATGACCCCAAGACCCTCACTCCGGAA  
 AGAAGCTATGGCAGTGATGAATTTGAGAGAAGCTTAATCTTAGTAAACAATCAAAGGATCCTCTAGGAA  
 AGGATCCCCAGGAAGGCACTGCTCCTGGAATATGTACGAGTCCCCAGTCAGCATCCAAGAGAACAAACA  
 CAACAGATGTGAATTTGCAAACGAACCTTTAGTACGCAAGTAGCCCTTAGGAGACACGAACGGATCCAT  
 ACTGGGAAGAAACCCTATGAATGTAAACAGTGTGCTGAAGCCTTCTATCTCATGCCACACCTCAACAGAC  
 ATCAGAAGACCCATTCTGGTAGGAAGACTTCTGGCTGCAATGAAGGTAGAAAGCCTTCGCTCCAGTGTGC  
 GAATCTCTGTGAACGTGTAGAATTACAGTACAGGAGGACTACTTTGAATGTTTTTTCAGTGGCGCAAAGCT  
 TTTCTCCAGAATGTGCATCTTCTCAACATCTCAAAGCCCATGAGGCAGCAAGAGTCTTCTCCTGGGT  
 TGTCCACAGCAAGACATACTTAATTCGTTATCAGCGGAAACATGACTACGTTGGAGAGAGAGCCTGCCA  
 GTGTTGTGACTGTGGCAGAGTCTCAGTCGGAATTCATATCTCATTACAGCATTATAGAACTCACACTCAA  
 GAGAGGCCTTACCAGTGTGAGTATGTGGGAAATGTTTCGGCCGACCCTCATACCTCACTCAACATTATC  
 AACTCCATTCTCAAGAGAAAACCTGTTGAGTGGGATCACTGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228942 representing NM\_001146327  
 Red=Cloning site Green=Tags(s)

MYQPEDDNNSDVTSDDDMTRNRRESSPPHSVHSFSGDRDWRDRGRSRDMEPRDRWSHTRNPRSRMPPRDL  
 SLPVVAKTSFEMDREDDRSRAYESRSQDAESYQNVVDLAEDRKPHTIQDNMENYRKL LSLGFLAQDSV  
 PAEKRNTEMLDNLPSAGSQFPDFKHLGTFVFEELVTFEDVLVDF SPEELSSLSAAQRNLYREVMLNRYR  
 NLVSLGHQFSKPDII SRLEEEESYAMETDSRHTVICQGESHDDPLEPHQGNQEKLLTPITMNDPKLTPE  
 RSYGSDEFERSSNL SKQSKDPLGKDPQEGTAPGICTSPQSASQENKHNRCFCRRTFSTQVALRRHERIH  
 TGKKPYECKQCAEAFYLMPHLNRHQKTHSGRKTSGCNEGRKPSVQCANLCERVRIHSQEDYFECFQCGKA  
 FLQNVHLLQHLKAHEAARVLPGLSHSKTYLIRYQRKHDYVGERACQCCDCGRVFSRNSYLIQHYRHTQ  
 ERPYQCQLCGKCFGRPSYLTQHYQLHSQEKTVECDHC

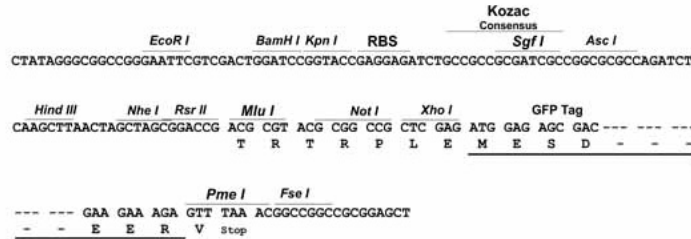
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

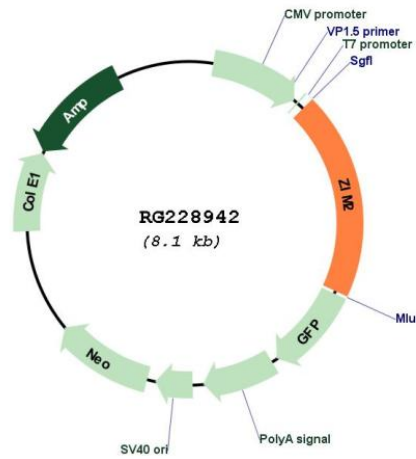
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001146327
<b>ORF Size:</b>	1581 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001146327.1</a> , <a href="#">NP_001139799.1</a>
<b>RefSeq Size:</b>	2276 bp
<b>RefSeq ORF:</b>	1584 bp
<b>Locus ID:</b>	23619
<b>UniProt ID:</b>	<a href="#">Q9NZV7</a>
<b>Cytogenetics:</b>	19q13.43
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	In human, ZIM2 and PEG3 (GeneID:5178) are two distinct genes that share a set of 5' exons and have a common promoter, and both genes are paternally expressed. Alternative splicing events connect the shared exons either with the remaining 4 exons unique to ZIM2, or with the remaining 2 exons unique to PEG3. This is in contrast to mouse and cow, where ZIM2 and PEG3 genes do not share exons in common, and the imprinting status of ZIM2 is also not conserved amongst mammals. Additional 5' alternatively spliced transcripts encoding the same protein have been found for the human ZIM2 gene. [provided by RefSeq, Oct 2010]