

## Product datasheet for **RG228941**

### ZIM2 (NM\_001146326) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZIM2 (NM_001146326) 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)



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**ORF Nucleotide Sequence:**

>RG228941 representing NM\_001146326  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTACCAACCAGAAGACGACAACAACAGTGACGTGACCAGTGACGACGACATGACCCGGAACAGAAGAG  
 AGTCTCACCACCTCACTCAGTCCATTCTTTCAGTGGTGACCGGACTGGGACCGGAGGGGCAGAAGCAG  
 AGACATGGAGCCACGAGACCGCTGGTCCACACCAGGAACCCAAGAAGCAGGATGCCTCCCGGGATCTT  
 TCCCTTCTGTGGTGGCGAAAACAAGCTTTGAAATGGACAGAGAGGACGACAGGGACTCCAGGGCTATG  
 AGTCCCGATCTCAGGATGCTGAATCATACCAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACAA  
 CACAATCCAGGACAACATGGAAGTACAGGAAGCTGCTCTCCCTCGTTTCTTGTCTCAGGACTCTGTC  
 CCTGCAGAAAAGAGGAACACAGAGATGTTAGACAATCTGCCATCTGCTGGGTCCCAGTTCCTCCGACTTCA  
 AACACTTAGGAACATTTCTGGTGTGAGGAGTTGGTGACCTTCGAGGATGTGCTTGTGGACTTCAGCCC  
 AGAGGAACCTTAGCTCCCTTAGTGTCTCAGAGAAACCTCTACAGGGAGGTGATGCTGGAGAATTACCGG  
 AACCTGGTCTCCCTGGGGCACCAGTTCTCTAAACCTGACATTATCTCACGCCTGGAAGAGGAGGAATCAT  
 ATGCAATGGAGACAGACAGCAGACATACAGTGATTTGTCAAGGAGAGTCTCATGATGATCCATTGGAACC  
 ACACCAGGGCAACCAAGAGAACTTTTACTCCTATAACAATGAATGACCCCAAGACCCTCACTCCGGAA  
 AGAAGCTATGGCAGTGATGAATTTGAGAGAAGCTTAATCTTAGTAAACAATCAAAGGATCCTCTAGGAA  
 AGGATCCCCAGGAAGGCACTGCTCCTGGAATATGTACGAGTCCCCAGTCAGCATCCAAGAGAACAAACA  
 CAACAGATGTGAATTTGCAAACGAACCTTTAGTACGCAAGTAGCCCTTAGGAGACACGAACGGATCCAT  
 ACTGGGAAGAAACCCTATGAATGTAAACAGTGTGCTGAAGCCTTCTATCTCATGCCACACCTCAACAGAC  
 ATCAGAAGACCCATTCTGGTAGGAAGACTTCTGGCTGCAATGAAGGTAGAAAGCCTTCCTCCAGTGTGC  
 GAATCTCTGTGAACGTGTAGAATTACAGTCAGGAGGACTACTTTGAATGTTTTTTCAGTGGCGCAAAGCT  
 TTTCTCCAGAATGTGCATCTTCTCAACATCTCAAAGCCCATGAGGCAGCAAGAGTCCTTCTCCTGGGT  
 TGTCCACAGCAAGACATACTTAATTCGTTATCAGCGAAACATGACTACGTTGGAGAGAGAGCCTGCCA  
 GTGTTGTGACTGTGGCAGAGTCTCAGTCGGAATTCATATCTCATTACAGCATTATAGAACTCACACTCAA  
 GAGAGGCCTTACCAGTGTGAGCTATGTGGGAAATGTTTCGGCCGACCCTCATACCTCACTCAACATTATC  
 AACTCCATTCTCAAGAGAAAACCTGTTGAGTGGGATCACTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228941 representing NM\_001146326  
 Red=Cloning site Green=Tags(s)

MYQPEDDNNSDVTSDDDMTRNRRESSPPHSVHSFSGDRDWRDRGRSRDMEPRDRWSHTRNPRSRMPPRDL  
 SLPVVAKTSFEMDREDDRSRAYESRSQDAESYQNVVDLAEDRKPHTIQDNMENYRKL LSLGFLAQDSV  
 PAEKRNTEMLDNLPSAGSQFPDFKHLGTFVFEELVTFEDVLVDF SPEELSSLSAAQRNLYREVMLENYR  
 NLVSLGHQFSKPDII SRLEEEESYAMETDSRHTVICQGESHDDPLEPHQGNQEKLLTPITMNDPKLTPE  
 RSYGSDEFERSSNL SKQSKDPLGKDPQEGTAPGICTSPQSASQENKHNRCFCRRTFSTQVALRRHERIH  
 TGKKPYECKQCAEFYLMPHLNRHQKTHSGRKTSGCNEGRKPSVQCANLCERVRIHSQEDYFECFQCGKA  
 FLQNVHLLQHLKAHEAARVLPGLSHSKTYLIRYQRKHDYVGERACQCCDCGRVFSRNSYLIQHYRHTQ  
 ERPYQCQLCGKCFGRPSYLTQHYQLHSQEKTVECDHC

TRTRPLE – GFP Tag – V

**Restriction Sites:**

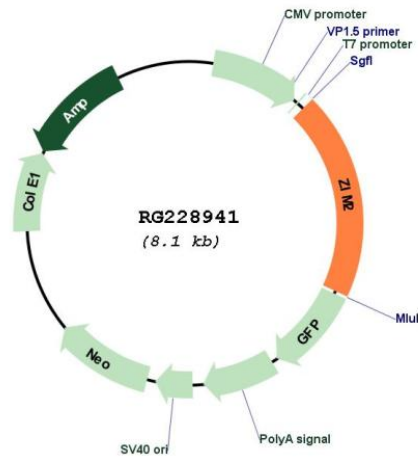
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001146326
<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_001146326.1</a> , <a href="#">NP_001139798.1</a>
<b>RefSeq Size:</b>	2189 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]