

Product datasheet for **RG211188**

ZIM2 (NM_015363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIM2 (NM_015363) 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:

>RG211188 representing NM_015363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCAACAGAACGACACAACAACAGTGACGTGACCAGTGACGACGACATGACCCGGAACAGAAGAG
 AGTCTCACACCTCACTCAGTCCATTCTTTCAGTGGTGACCGGACTGGGACCGGAGGGGAGGAGGAGCAG
 AGACATGGAGCCACGAGACCGCTGGTCCACACCAGGAACCCAAGAAGCAGGATGCCTCCGCGGGATCTT
 TCCCTTCTGTGGTGGCGAAAACAAGCTTTGAAATGGACAGAGAGGACGACAGGGACTCCAGGGCTATG
 AGTCCCGATCTCAGGATGCTGAATCATACCAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACAA
 CACAATCCAGGACAACATGGAACACTACAGGAAGCTGCTCTCCCTCGTTTCTTGTCTCAGGACTCTGTC
 CCTGCAGAAAAGAGGAACACAGAGATGTTAGACAATCTGCCATCTGCTGGGTCCCAGTTCCTCCGACTTCA
 AACACTTAGGAACATTTCTGGTGTGAGGAGTTGGTGACCTTCGAGGATGTGCTTGTGGACTTCAGCCC
 AGAGGAACCTTAGCTCCCTTAGTGTCTCAGAGAAACCTCTACAGGGAGGTGATGCTGGAGAATTACCGG
 AACCTGGTCTCCCTGGGGCACCAGTTCTCTAACTGACATTATCTCACGCCTGGAAGAGGAGGAATCAT
 ATGCAATGGAGACAGACAGCAGACATACAGTGATTTGTCAAGGAGAGTCTCATGATGATCCATTGGAACC
 ACACCAGGGCAACCAAGAGAACTTTTACTCCTATAACAATGAATGACCCCAAGACCCTCACTCCGGAA
 AGAAGCTATGGCAGTGATGAATTTGAGAGAAGCTTAATCTTAGTAAACAATCAAAGGATCCTCTAGGAA
 AGGATCCCCAGGAAGGCACTGCTCCTGGAATATGTACGAGTCCCCAGTCAGCATCCAAGAGAACAAACA
 CAACAGATGTGAATTTGCAAACGAACCTTTAGTACGCAAGTAGCCCTTAGGAGACACGAACGGATCCAT
 ACTGGGAAGAAACCCTATGAATGTAAACAGTGTGCTGAAGCCTTCTATCTCATGCCACACCTCAACAGAC
 ATCAGAAGACCCATTCTGGTAGGAAGACTTCTGGCTGCAATGAAGGTAGAAAGCCTTCAGTCCAGTGTGCT
 GAATCTCTGTGAACGTGTAGAATTACAGTCAGGAGGACTACTTTGAATGTTTTTCAAGTGGCGCAAAGCT
 TTTCTCCAGAATGTGCATCTTCTCAACATCTCAAAGCCCATGAGGCAGCAAGAGTCCTTCTCCTGGGT
 TGTCCACAGCAAGACATACTTAATTCGTTATCAGCGGAAACATGACTACGTTGGAGAGAGAGCCTGCCA
 GTGTTGTGACTGTGGCAGAGTCTCAGTCGGAATTCATATCTCATTACAGCATTATAGAACTCACACTCAA
 GAGAGGCCTTACCAGTGTGAGTATGTGGGAAATGTTTCGGCCGACCCTCATACCTCACTCAACATTATC
 AACTCCATTCTCAAGAGAAAACCTGTTGAGTGGGATCACTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211188 representing NM_015363
 Red=Cloning site Green=Tags(s)

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

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015363

ORF Size: 1581 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:

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_015363.3](#), [NP_056178.3](#)

RefSeq Size: 2083 bp

RefSeq ORF: 1584 bp

Locus ID: 23619

UniProt ID: [Q9NZV7](#)

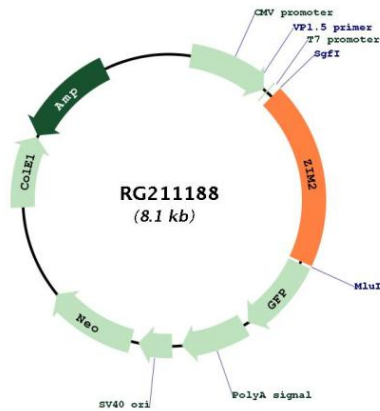
Cytogenetics: 19q13.43

Domains: LER, zf-C2H2

Protein Families: Transcription Factors

Gene Summary: 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]

Product images:



Circular map for RG211188