

Product datasheet for **SC125515**

ZIM2 (NM_015363) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIM2 (NM_015363) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZIM2
Synonyms:	ZNF656
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125515 sequence for NM_015363 edited (data generated by NextGen Sequencing)

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ATGTACCAACCAGAAGACGACAACAACAGTGACGTGACCAGCGACGACGACATGACCCGG
AACAGAAGAGAGTCCCTACCACCTCACTCAGTCCATTCTTTTCAGTGGTGACCGGGACTGG
GACCGGAGGGGCAGAAGCAGAGACATGGAGCCACGAGACCCTGGTCCCACACCAGGAAC
CCAAGAAGCAGGATGCCTCCGCGGGATCTTTCCCTTCTGTGGTGGCGAAAAACAAGCTTT
GAAATGGACAGAGAGGACGACAGGGACTCCAGGGCTTATGAGTCCCGATCTCAGGATGCT
GAATCATACAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACAACACAATCCAG
GACAACATGGAATACTACAGGAAGCTGCTCCCTCGGTTTCCTTGCTCAGGACTCTGTC
CCTGCAGAAAAGAGGAACACAGAGATGTTAGACAATCTGCCATCTGCTGGGTCCCAGTTC
CCGGACTTCAAACACTTAGGAACATTTCTGGTGTGGAGGAGTTGGTGACCTTCGAGGAT
GTGCTTGTGGACTTCAGCCAGAGGAAGTCTAGCTCCCTTAGTGCTGCTCAGAGAAACCTC
TACAGGGAGGTGATGCTGGAGAATTACCGAACCTGGTCTCCCTGGGGCACCAGTTCTCT
AAACCTGACATTATCTCACGCTGGAAGAGGAGGAATCATATGCAATGGAGACAGACAGC
AGACATACAGTATTTGTCAAGGAGAGTCTCATGATGATCCATTGGAACACACCAGGGC
AACCAAGAGAAAATTTGACTCCTATAACAATGAATGACCCCAAGACCCTCACTCCGGAA
AGAAGCTATGGCAGTGATGAATTTGAGAGAAGCTAATCTTAGTAAACAATCAAAGGAT
CCTCTAGGAAAAGGATCCCAGGAAGGCACTGCTCCTGGAATATGTACGAGTCCCCAGTCA
GCATCCCAAGAGAAACAACAACACAGATGTGAATTTTGCAAACGAACCTTTAGTACGCAA
GTAGCCCTTAGGAGACACGAACGGATCCATACTGGGAAGAAACCCATGAATGTAACAG
TGTGCTGAAGCCTTCTATCTCATGCCACACCTCAACAGACATCAGAAGACCCATTCTGGT
AGGAAGACTTCTGGCTGCAATGAAGGTAGAAAGCCTCCGTCAGTGTCGAATCTCTGT
GAACGTGAAGAATTCACAGTCAAGGAGGACTACTTTGAATGTTTTTCAGTGCCGCAAGCT
TTTCTCCAGAATGTGCATCTTCTTCAACATCTCAAAGCCATGAGGCAGCAAGAGTCCTT
CCTCCTGGGTTGTCCACAGCAAGACATACTTAATTCGTTATCAGCGGAAACATGACTAC
GTTGGAGAGAGAGCCTGCCAGTGTGTGACTGTGGCAGAGTCTTCAGTCGGAATTCATAT
CTCATTACGATTATAGAACTCACACTCAAGAGAGGCCTTACCAGTGTCAGCTATGTGGG
AAATGTTTCGGCCGACCCTCATACCTCACTCAACATTATCAACTCCATTCTCAAGAGAAA
ACTGTTGAGTGGATCACTGTTGA
    
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Clone variation with respect to NM_015363.4
573 t=>c

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_015363 unedited
AGGTCAGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCTGCGGTA
GGAGAGGTTTGGGAGGCGCGGAGATGTCCACCCTGGGCTGGTGGCGCCCGGGCGCCG
GGCGCCATGAGGGTGCCTAGGCGGCTGTTCTGTCGCGGAGGCTGCCGAGCACTGAGGTGA
GCTTTGCCTTCTTGATCTTCCGTCTTCTTGGAGACGACTGGCGAGAGGAAGAGGGACTA
GGTCCAAACGCTAGGTGGCTGGGTCCAGCCGAGACCCGACCAAGGAGGAGATCATCGA
GCTCTTGGTCTTGGAGCAGTACCTGACCATCATCCCTGAAAAGCTCAAGCCTTGGGTGCG
AGCAAAAAGCCGGAGAAGTGTGAGAAGCTCGTCACTCTGCTGGAGAATTACAAGGAGAT
GTACCAACCAGAAGACGACAACAACAGTGACGTGACCAGCGACGACGACATGACCCGGAA
CAGAAGAGAGTCTCACCACCTCACTCAGTCCATTCTTTTCAGTGGTGACCGGGACTGGGA
CCGGAGGGGCAGAAGCAGAGACATGGAGCCACGAGACCCTGGTCCCACACCAGGAACCC
AAGAAGCAGGATGCCTCCGCGGATTTCTTCTTCTGTGGTGGCGAANACAAGCTTGAA
ATGGACAGAGAGGACGACAGGGACTCCAGGGCTTATGAGTCCCGATCTCAGGATGCTGAA
TCATACCAAAAATGTGGTGGNACCTCGCTNGAGACAGGNAACNNNTCACACACAATCCANN
GACACATGGAANACTACAGGAAGCTGCTCTCCCTCGGTTTCCTTTGCTCAGACTCTGTCC
NNTGCGAANNAGAGACACAGAGATGTTAGACAATCTGCCATCTGTGGTCCNNNAGTGG
ACCCCTGAGCTTACCTACNNACTACAAGAACCAGAGCAGACTCTGATTCTTGAGCTGA
GT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015363 unedited TAGAACCATTTGGGNGATTGGCAACTTNCAGNCCAGNANAGCACTGGGNGAGGGTCACA GGGATGCCACCCGGGATCTGTTCCAGNAAACAGCTATGACCGCGGCCGCAATCTAGAGTCG AGTTTTTTTTTTTTTTTTTACCACACTTTGATGAATGTTCAAGTTGTTAACAAGGTGGG GCTAGTGAAAGGCCTTCTCACACTCACAACTCTAGGAGGAAGCCAATAATGTTGAGAA AAGTGTGTGCTGTGACTAAAGGTTTCTCAACAGTGATCGCACTCAACAGTTTTCTCTTGA GAATGGAGTTGATAATGTTGAGTGAGGTATGAGGGTCGGCCGAAACATTTCCACATAGC TGACACTGGTAAGGCCTCTCTTGAGTGTGAGTTCTATAATGCTGAATGAGATATGAATTC CGACTGAAGACTCTGCCACAGTCACAACACTGGCAGGCTCTCTCTCCAACGTAGTCATGT TTCCGCTGATAACGAATTAAGTATGCTTGTGCTGTGGGACAACCCAGGAGGAAGGACTCTT GCTGCCTCATGGGCTTTGAGATGTTGAAGAAGATGCACATTCTGGAGAAAAGCTTTGCCG CACTGAAAACATTCAAAGTAGTCTCTGACTGTGAATTCTTACACGTTCCACAGAGATTC GCACACTGGACGGAAGGCTTTCTACCTCATTGCAGCCAGAAGTCTTCTACCAGAATGG GTCTTCTGATGTCTGTTGAGGTGTGGCATGAGATAGAAGGCTTCAGCACACTGTTTACAT TCATAGGGTTTCTCCAGTATGGATCCGTTTCGTGTCTCCTAAGGGCTACTTGCGTACTA AAGGTTTCGTTTGCAAAATCACATCTGTTGTGTTTGTCTCTTGGGATGCTGACTGGGGAC TCGTACATATTCCAGGAGCAGTGCCCTTCTGGGATCA
Restriction Sites:	NotI-NotI
ACCN:	NM_015363
Insert Size:	2200 bp
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:	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]

Transcript Variant: This variant (1) was originally described as the ZIM2 transcript (PMID:10708526). Variants 1-6 all encode the same isoform (b).