

Product datasheet for **SC327712**

PEG3 (NM_001146185) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEG3 (NM_001146185) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEG3
Synonyms:	PW1; ZKSCAN22; ZNF904; ZSCAN24
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001146185, the custom clone sequence may differ by one or more nucleotides

```

ATGTACCAACCAGAAGACGACAACAACAGTGACGTGACCAGCGACGACGACATGACCCGG
AACAGAAGAGAGTCCTCACACCTCACTCAGTCCATTCTTTAGTGACCCGGGACTGGGAC
CGGAGGGGCAGAAGCAGAGACATGGAGCCACGAGACCGCTGGTCCCACACCAGGAACCCA
AGAAGCAGGATGCCTCCGCGGGATCTTTCCCTTCTGTGGTGGCGAAAACAAGCTTTGAA
ATGGACAGAGAGGACGACAGGGACTCCAGGGCTTATGAGTCCCGATCTCAGGATGCTGAA
TCATACCAAAAATGTGGTGGACCTCGCTGAGGACAGGAAACCTCACAACACAATCCAGGAC
AACATGGAAAACACAGGAAGCTGCTCTCCCTCGTGCAGCTTGCTGAAGACGATGGCCAC
TCCCACATGACGCAGGGCCACTCATCAAGATCCAAGAGAAGTGCCTACCAAGCACCAGT
CGAGGTCTAAAAACTATGCCTGAAGCCAAAAAATCAACCCACCGCGGGGGATTTGTGAA
GATGAATCTTCCACGGAGTGATAATGGAAAAATTCATCAAGGATGTGTACGCAGTTC
AAATCGGGAAGAGCAAGGGAGTCAAGCGACCGGTACAGAGATTTCCCAAGATGTCAGAT
GATAACTGGAAGGACATTTTCATTGAACAAGAGGGAGTCAAGTATCCAGCAGCGGGTTTAT
GAAGGGAATGCATTTAGGGGAGGCTTTAGGTTTAAATCAACCCTTGTTCCAGAAAGAGA
GTTCTTGAAGAAAGAGGCGCTATCATTGACACAGATGGGAAGGGCTCGATTCACGAT
CAAAAAGGCTGTCCAGGAAGAAGCCCTTTGAATGTGGTAGTGAGATGAGAAAAGCCATG
AGCGTGAGCAGCCTGAGCAGCCTCAGCTCCCCCTCCTTTACCGAGTACAGCCAATTGAT
TTTGGGCAATGCCATATGTATGTGATGAGTGTGGGAGGTCGTTTCAGTGCATCTCAGAA
TTTGTTGAGCACCAGATCATGCATACTAGAGAGAACCTCTATGAGTATGGTGAGTCTTT
ATCCACAGTGTGCTGTAGTGAAGTTCAGAAAAGTCAAGTTGGAGGGAAACGTTTTGAA
TGTAAGGACTGTGGAGAGACCTTCAATAAGAGTGCCGCCTTGGCTGAACATCGGAAGATT
CATGCTAGAGTTATCTTGTGGAATGTAAGAATCAGGAATGTGAGGAAGCCTTCATGCCT
AGCCCCACCTTTAGTGAGCTTCAGAAAATATATGGCAAAGACAAATTCACGAGTGCAGG
GTGTGTAAGGAAACCTTCTTCATAGTTCTGCCCTGATTGAGCACCAGAAAATCCACTTT
GGGGATGACAAAAGATAATGAGCGTGAACATGAACGTGAACGTGAACGTGAGCGCGGGGAA
ACCTTTAGGCCAGCCAGCCCTTAATGAGTTTCAGAAAATGTATGGTAAAGAGAAAATG

```



[View online »](#)

TACGAATGTAAGGTGTGTGGGAGACTTTCCTTCATAGCTCATCCCTGAAAGAACATCAG
 AAAATCCATACTAGAGGGAACCCATTTGAAAACAAGGGTAAAGTGTGTGAGGAAACCTTT
 ATTCCTGGTCAGTCCCTTAAAAGGCGTCAGAAAACCTTACAATAAGGAGAAGCTCTGTGAC
 TTTACAGATGGCCGGATGCCTTCATGCAAAGCTCAGAGCTCAGTGAGCATCAGAAAATT
 CATTCTCGAAAGAACCTTTTGAAGGCAGAGGGTATGAGAAATCTGTTCATAGTGGG
 CCATTCCTGAATCTCAGAAGAGTCATACTATAACAAGACCTCTTGAAAGTGTAGGAGC
 GAAAAGGCGTTACCATTAGCTTAAGCCCTATGAAAACAGAAAGATTCCCACTAAGGAA
 AATGTCTATGAGGCAAAATCATATGAGAGGTCTGTTATTTCATAGCTTAGCCTCTGTGAA
 GCTCAGAAAAGTACAGTGTAGCAGGGCCAGTAAACCAAAAGTAAATGGCAGAGTCTACC
 ATTCAGAGCTTCGATGCTATCAACCATCAGAGAGTTCGTGCTGGAGGGAACACCTCTGAA
 GGAAGGGAATACAGTAGGTCTGTTATCCATAGCTTAGTGGCTTCCAAACCTCCAAGAAGT
 CACAATGGAAATGAATTGGTGAATCTAATGAGAAGGGAGAATCCTCCATTTATATCTCA
 GACCTTAATGATAAGCGACAGAAGATTCCTGCCAGAGAGAACCCTTGTGAAGGGGCGAGT
 AAGAATCGCAACTATGAAGACTCTGTCATACAGAGTGTATTCCGTGCCAAACCTCAGAAA
 AGTGTTCCTGGAGAGGGATCTGGTGTGAGTTTAAAGAAGGATGGCGAATTCTCTGTTCCGAGC
 TCAAAATGTCGGTGAATACCAGAAGGCTCGTGCTAAAAAGAAATACATTGAGCATAGGAGC
 AATGAGACCTCTGTAATCACTCTCTGCCTTTTGGTGAACAAACATTTCCGCCCTCGAGGG
 ATGCTCTATGAATGTCAGGAGTGTGGGAGTGTCTTGGCTCATAGCTCTGACCTCACTGAG
 CACCAGAAGATTCATGATAGGGAGAAGCCCTCTGGAAGCAGAAAATATGAATGGTCTGTC
 ATTCGCAGCTTGGCCCTACTGACCCTCAAACAAGTTACGCCCAAGAGCAGTATGCTAAA
 GAGCAAGCGCGGAACAAATGTAAGGACTTCAGACAATTTTTTGTACCAGCGAAGACCTC
 AACACAAAACAGAAAATCTATGACCAAGAGAAGTCTCATGGCGAGGAGTCTCAAGGCGAG
 AATACTGATGGGAGGAGACCCACAGCGAGGAGACCCATGGTCAGGAGACAATTGAAGCGAG
 CCTGTCTATTCAAGGCTCAGACATGGAAGACCCTCAGAAGGATGACCCTGATGACAAAATC
 TATGAATGTGAGGACTGTGGCCTGGGCTTTGTGGATCTCACAGACCTCACAGACCATCAG
 AAAGTCCACAGCAGGAAGTGCCTGGTTGACAGTCGGGAGTACACACATTCTGTAATTCAC
 ACCCATCCATCAGCGAGTATCAGAGAGATTACCTGGAGAGCAGCTGTATGAATGTCCA
 AAGTGTGGGGAATCTTTTATTTCATAGCTCATTCTTTTCGAGCATCAGAGAATCCATGAA
 CAAGACCAGTTGTATTCCATGAAGGGGTGTGATGATGGTTTTATTGCCCTCTTGCCCATG
 AAGCCACGGAGGAATCGTGCTGCAGAGAGGAATCCTGCTCTTGCTGGGTGGCCATTGCA
 TGCCTTTTGTGTGGACAAGGCTTATTTCATAGCTCTGCCCTTAATGAGCATATGAGACTT
 CATAGGGAAGATGATTTACTGGAGCAGAGCCAGATGGCTGAGGAAGCTATCATTCCAGGC
 TTAGCCCTCACTGAGTTTCAGAGAAGTCAGACCGAAGAGAGACTCTTTGAATGTGCAAGT
 TGTGGAGAATCTTTCGTCAACCCAGCAGAACTGCAGATCACGTAACCTGTTTCATAAGAAT
 GAGCCCTATGAGTACGGGTCTCTCTATACTCACACCTCATTTCTTACTGAGCCCCTCAA
 GGAGCTATACCATTCTATGAATGCAAGGATTGTGGTAAGTCCTTTATTTCATAGCAGAGT
 CTCCTAAACATAAGGAGCTTCTCTGGAAGAAGAAGAAGATGAAGCAGCAGCAGCT
 GCAGCAGCAGCAGCCAGGAAGTTGAAGCCAATGTCCATGTTCCACAAGTAGTTCTGAGG
 ATTCAGGGCTTAAACGTAGAGGCTGCTGAGCCAGAAGTGGAGGCTGCCGAGCCAGAAGTG
 GAGGCTGCTGAGCCAGAAGTGGAGGCTGCTGAGCCAAACGGAGAGGCTGAAGGGCCAGAT
 GGAGAGGCTGCAGAGCCATTGGAGAGGCTGGACAGCCAAATGGAGAGGCCGAGCAGCCA
 AATGGGGATGCTGATGAGCCAGATGGTGCAGGTATTGAAGACCCAGAAGAAAGAGCTGAA
 GAGCCAGAGGGAAAAGCTGAAGAGCCAGAGGGAGATGCCGACGAGCCTGACGGTGTGGGA
 ATTGAAGACCCAGAAGAAGTGAAGATCAAGAGATTTCAGGTAGAAGAACCATACTATGAC
 TGCCATGAATGCACAGAAACCTTCACTTCCAGCACAGCATTTCAGTGAACACCTGAAAAC
 CATGCCAGCATGATCATATTTGAGCCTGCAAATGCCTTTGGGGAGTGTCTAGGCTACATC
 GAACGTGCCAGCACAGCAGGTTGGTCCCAATCAAGCTGATGAGAAGTACTTCAAATGT
 GACGTCTGTGGGAGCTCTTCAATGACCGCTGTCCCTGCCAGACACCAGAATACCCAC
 ACTGGC

Restriction Sites:

Please inquire

ACCN:

NM_001146185

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001146185.1</u> , <u>NP_001139657.1</u>
RefSeq Size:	8375 bp
RefSeq ORF:	4389 bp
Locus ID:	5178
UniProt ID:	<u>Q9GZU2</u>
Cytogenetics:	19q13.43
Protein Families:	Transcription Factors
Gene Summary:	<p>In human, ZIM2 and PEG3 are treated as two distinct genes though they share multiple 5' exons and a common promoter and both genes are paternally expressed (PMID:15203203). Alternative splicing events connect their shared 5' exons either with the remaining 4 exons unique to ZIM2, or with the remaining 2 exons unique to PEG3. In contrast, in other mammals ZIM2 does not undergo imprinting and, in mouse, cow, and likely other mammals as well, the ZIM2 and PEG3 genes do not share exons. Human PEG3 protein belongs to the Kruppel C2H2-type zinc finger protein family. PEG3 may play a role in cell proliferation and p53-mediated apoptosis. PEG3 has also shown tumor suppressor activity and tumorigenesis in glioma and ovarian cells. Alternative splicing of this PEG3 gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (3) is missing a 5' non-coding exon, and uses an alternate acceptor splice site at the first coding exon compared to variant 1. This results in the use of an in-frame downstream start codon, and an isoform (2) with a shorter N-terminus compared to isoform 1.</p>