

Product datasheet for **SC116323**

PIAS3 (NM_006099) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIAS3 (NM_006099) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIAS3
Synonyms:	ZMIZ5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006099, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGCTGGGCGAATTAAGCACATGGTGATGAGTTCCGGGTGTCTGAGCTCCAGGTGCTTCTTG
GCTTTGCTGGCCGAACAAGAGTGGACGGAAGCACGAGCTCTGGCCAAGGCTCTGCACCTCTGAAGTC
CAGCTGTGCCCTAGTGTCCAGATGAAGATCAAAGAGCTTTACCGACGACGCTTTCCCGGAAGACCCTG
GGGCCCTCTGATCTCCCTTCTCTCTTTGCCCTGGCACCTCTCTGTAGGCTCCCCTGGTCTCTAG
CTCCCATTCGCCAACGCTGTTGGCCCTGGCACCTGTGGGCCCAAGCGTGAGGTGGACATGCACCC
CCCTCTGCCCCAGCCTGTGCACCCTGATGTACCATGAAACCATTGCCCTTCTATGAAGTCTATGGGGAG
CTCATCCGGCCACCACCCTTGATCCACTTCTAGCCAGCGGTTTGAGGAAGCGCACTTTACCTTTGCC
TCACACCCAGCAAGTGCAGCAGATTCTACATCCAGAGAGGTTCTGCCAGGAGCCAAATGTGATTATAC
CATAACAGGTGCAGCTAAGGTTCTGTCTGTGAGACCAGCTGCCCCAGGAAGATTATTTCCGCCAAC
CTCTTTGTCAAGGTCAATGGGAACTGTGCCCTGCGGGTTACCTTCCGCCAACCAAGAATGGGGCCG
AGCCCAAGAGGCCAGCCGCCCATCAACATCACACCCTGGCTCGACTCTCAGCCACTGTTCCCAACAC
CATTGTGGTCAATTGGTCACTGAGTTCGGACGGAATTACTCCTTGTCTGTGTACCTGGTGGAGCAGTTG
ACTGCAGGAACCTTCTACAAAACTCAGAGCAAAGGGTATCCGGAACCCAGACCACTCGCGGGCACTGA
TCAAGGAGAAATTGACTGCTGACCCTGACAGTGAGGTGGCCACTACAAGTCTCCGGGTGTCACTCATGTG
CCCGTAGGGAAGATGCGCCTGACTGTCCCTTGTCTGTGCCCTCACCTGCGCCACCTGCAGAGCTTCGAT
GCTGCCCTTATCTACAGATGAATGAGAAGAAGCTACATGGACATGTCTGTGTGTGACAAGAAGGCTC
CCTATGAATCTCTTATCATTGATGGTTTATTTATGGAGATTCTTAGTTCCTGTTCCAGATTGTGATGAGAT
CCAATTCATGGAAGATGGATCCTGGTGCCCAATGAAACCAAGAAGGAGGCATCTGAGGTTTGGCCCCG
CCAGGGTATGGGCTGGATGGCTCCAGTACAGCCAGTCCAGGGGGGAGATCCATCAGAGAATAAGAAGA
AGGTGCAAGTTATTGACTTGACAATAGAAAGCTCATCAGATGAGGAGGATCTGCCCCCTACCAAGAAGCA
CTGTTCTGTACCTCAGCTGCCATCCCGCCCTACCTGGAAGCAAAGGAGTCTGACATCTGCCCACCAG
CCATCCTCGGTGCTAAGGAGCCCTGCTATGGGCACGTTGGGTGGGGATTTCCTGTCCAGTCTCCACTAC
ATGAGTACCCACCTGCCTTCCACTGGGAGCCGACATCCAAGGTTTAGATTTATTTTCATTTCTTCAGAC
AGAGAGTCAGCACTATGGCCCTCTGTATCACCTCACTAGATGAACAGGATGCCCTTGGCCACTTCTTC
CAGTACCGAGGGACCCCTTCTCACTTTCTGGGCCACTGGCCCCACGCTGGGGAGCTCCACTGCAGCG
CCACTCCGGCGCCCTCTGGCCGTGTACGACGATTGTGCCCTGGGGGGCCCTTGGGGAGGGGCA
TGGAGGACCCCTGCCCTCAGTCCCTTTGACTGGCTGTGGTGTGAGACATCATTCCCTGGACTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006099 unedited

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TATATTTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGCCCCATTCCCC
CACCTCTCCAGCTCGCCCTCTGAGCCTCCCGAGCCCTCTCTCCATTTCCACAAATTGTGC
TGCACATGGTGATGAGTTTCCGGGTGTCTGAGCTCCAGGTGCTTCTTGGCTTTGCTGGCC
GGAACAAGAGTGGACGGAAGCACGAGCTCTGGCCAAGGCTCTGCACCTCCTGAAGTCCA
GCTGTGCCCTAGTGTCCAGATGAAGATCAAAGAGCTTTACCGACGACGCTTTCCCGGA
AGACCCTGGGGCCCTCTGATCTCTCCCTTCTCTTTGCCCTGGCACCTCTCCTGTAG
GCTCCCCTGGTCTCTAGCTCCATTCCCCAACGCTGTTGGCCCTGGCACCTGCTGG
GCCCAAGCGTGAGGTGGACATGCACCCCTCTGCCCCAGCCTGTGCACCCTGATGTCA
CCATGAAACCATTGCCCTTCTATGAAGTCTATGGGGAGCTCATCCGGCCACCACCCTTG
CATCCACTTCTAGCCAGCGGTTTGGGAAGCGCACTTTACCTTTGCCCTCACACCCAGC
AAGTGCAGCAGATTCTTACATCCAGAGAGGTTCTGCCAGGAGCCAAATGTGATTATACCA
TACAGGTGCAGCTAAGGTTCTGTCTGTGAGACCAGCTGCCCCAGNAAGATTATTTTC
CCCCAACCTCTNTGTCAAGGTCAATGGGAACTGTGCCNNCTGCCGGTTACCTTCCCC
CACCAAGAATGGNGCCGAGCCCCAGAAGCCAGCCGNCCCATCACATCACACCCCTGGC
TCGACTCTCAGNCCTGGTCCCACACCAATTTGTGTATGGNTCATCTGAGTTTCGNACGGAA
ATACTCTGTCTGTGTACCTGGNGAGGCAGNTGACTGCAGGAACCCCTTCTACAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006099 unedited GCGGCACGCAATCTAGAATCGAGTTGAACATTCA CAACCTTTATTATGGGTGAGAGCTTCACTACAACCTTTAGAAATAAAAAGTAAAATTACAA CATAGGTCCTAAGCCTTGGCGAGCCTGAAAAAGAAGATTGGGAAGGAGGGCACAGGGTCC TTCCACCTCCCTGGAAAGGTGCAGAATGAGCCAGGCCTAACTACAGGGCCATGAGCCTCT AAAAGCTTAGGGGGGAATAAGAAACACTGGGAACCTTAGATATATAAATAGAGAGAGACCC AAGCAATAGGCCGGCCCTGACTCCCAGACCCCTGCAGATCATGGCTAAGGCCTTACATCC TCCTCTGTCATACTGGAGTAGGAGGCAGGGGAAGTCATCTTTGGAGTATTTTGGTTTTTC TTATTTATGTACAAAAAGTCCACATCCACAATCCAAAAATAAGTTCTCTGTCCATCTCT GAAACTGCCTGTCTCAGTTTTTCCACCTGTCTGTTGGCCGAAGGGAATGGAATATACAT GAAGAGACAATGGATGTGAAGAAGAAATAGAGCCATGGGTTCCGGTAATAAGAAGAGAGA GCTTTTGGGGTTCAAGAGAGGTGCCCTTCCCCAAGAGGCTCTAGACATAATCAAGGCTG AAGGTTCAACCCCTTTTCTAGCTCAATACCATCCCATTTGCCTCCCACTGCCTAGGTAAA CTACCAAGGAATGTGCCCCCTCTAAAGACATTTCCAGAACAGACCCAAGGGCTTAAAA GAGGCTAAATTTAACCCCTTTGGTGTGGCTTTCCGGCAAAATAGCCCAAAGTAGGTTTC TGGAAGGCTTCTGCCCTGGGCACACCCCAAGGAACATAGAAGTGGGTTGGACCCCAA TACTTCTCAAGTGGGCAACAAAATTTCTACCCGGGACCCCTTCGGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_006099
Insert Size:	2870 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:	<u>NM_006099.2</u> , <u>NP_006090.1</u>
RefSeq Size:	2902 bp
RefSeq ORF:	1860 bp
Locus ID:	10401
UniProt ID:	<u>Q9Y6X2</u>
Cytogenetics:	1q21.1
Domains:	SAP, zf-MIZ
Protein Families:	Transcription Factors

Protein Pathways: Jak-STAT signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis

Gene Summary: This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)] family of transcriptional modulators. The protein functions as a SUMO (small ubiquitin-like modifier)-E3 ligase which catalyzes the covalent attachment of a SUMO protein to specific target substrates. It directly binds to several transcription factors and either blocks or enhances their activity. Alternatively spliced transcript variants of this gene have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]