

Product datasheet for **SC125358**

PIAS2 (NM_004671) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIAS2 (NM_004671) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIAS2
Synonyms:	ARIP3; DIP; MIZ1; PIASX; SIZ2; ZMIZ4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125358 sequence for NM_004671 edited (data generated by NextGen Sequencing)

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ATGGCGGATTTTCGAAGAGTTGAGGAATATGGTTTCTAGTTTTAGGGTTTCTGAACTACAA
GTATTACTAGGCTTTGCTGGACGGAATAAAAGTGGACGCAAGCATGACCTCCTGATGAGG
GCGCTGCATTTATTGAAGAGCGGCTGCAGCCCTGCGGTTTCAGATTAATAATCCGAGAATTG
TATAGACGCCGATATCCACGAACCTTTGAAGACTTTCTGATTTATCCACAATCAATCA
TCGGTTTTTCAGTTTGGATGGTGGCTCATCACCTGTAGAACCTGACTTGGCCGTGGCTGGA
ATCCACTCGTTGCCTTCCACTTCAGTTACACCTCACTCACCATCCTCTCCTGTTGGTTCT
GTGCTGCTTCAAGATACTAAGCCACATTTGAGATGCAGCAGCCATCTCCCCAATTCTCT
CCTGTCCATCCTGATGTGCAAGTAAAAAATCTGCCCTTTTATGATGTCCTTGATGTTCTC
ATCAAGCCACGAGTTTGTTCAAAGCAGTATTACGCGATTTCAAGAGAAGTTTTTTTATT
TTTGCTTTGACACCTCAACAAGTTAGAGAGATATGCATATCCAGGGATTTTTTGGCAGGT
GGTAGGAGAGATTATACAGTCCAAGTTCAGTTGAGACTTTGCCTGGCAGAGACAAGTTGC
CCTCAAGAAGATAACTATCCAAATAGTCTATGTATAAAAGTAAATGGGAAGCTATTTCTT
TTGCTTGGCTATGCACCACCGCCTAAAAATGGGATTGAACAGAAGCGCCCTGGACGCCCC
TTGAATATTACATCTTTAGTTAGTTATCTTCAGCTGTGCCAAACCAAATTTCCATTTCT
TGGGCATCAGAAATTGGGAAGAATTACTCTATGTCTGTATATCTTGTACGGCAGCTTACA
TCAGCCATGTTATTACAGAGATTAATAAGTAAAGTATTAGAAACCTGATCATTCCAGA
GCATAATTAAGAAAACTTACTGCAGATCCTGATAGTAAAATTGCTACAACACTAGCCTT
CGGGTATCCTTGATGTGCCCTTTAGGAAAAATGAGGCTGACAATCCCATGCCGTGCAGTG
ACTTGTACACATCTGCAGTGTGTTGATGCTGCCCTCTATCTACAAATGAATGAGAAAAAG
CCCACCTGGATTTGTCCTGTGTGTGACAAAAAGCTGCCTATGAAAGTCTAATATTAGAT
GGGCTTTTTATGGAAATCTCAATGACTGTTCTGATGTAGATGAGATCAAATTTCAAGAA
GATGGTTCTTGGTGTCCAATGAGACCGAAGAAAGAAAGCTATGAAAGTATCCAGCCAACCG
TGTACAAAAATAGAAAGTTCAAGCGTCCTCAGTAAGCCTTGTTTCAGTGACTGTAGCCAGT
GAGGCAAGCAAGAAGAAAGTAGATGTTATTGATCTTACAATAGAAAGCTTTCTGACGAA
GAGGAAGACCCTCCTGCCAAAAGGAAATGCATCTTTATGTCAGAAACACAAAGCAGCCCA
ACCAAAGGGTTCTCATGTATCAGCCATCTTCTGTAAGGGTGCCAGTGTGACTTCGGTT
GATCCTGTGCTATTCCGCCTTCATTAACAGACTACTCAGTACCATTCCACCATACGCCA
ATATCAAGCATGTCATCAGATTTGCCAGGTTTGGATTTTCTTTCCCTTATTCCAGTTGAT
CCCCAGTACTGTCCTCCTATGTTTTTGGATAGTCTCACCTCACCTTAACAGCAAGCAGT
ACGTCTGTCAACCACCAGCTCCCATGAAAGCAGTACTCATGTTAGTTTATCCAGCAGC
AGGAGTGAGACAGGGGTATAACCAGCAGTGGAAGTAACATTCCTGACATCATCTCATTG
GACTAA
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Clone variation with respect to NM_004671.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004671 unedited</p> <pre> TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGCGGCCGCGG GCGTCTTAAGCGGCGCCAGTGCAGGATGGTGTCTGGAGGCGGCGGCCGCGTGGTGGCGG CAGCGTCGTTGGCGGCAGCGGGAGTGGGTGCGGCGGCAGCGGCGGCGGCCCGCGGGTG GTATAAAATGGCGGATTTCAAGAGTTGAGGAATATGGTTTCTAGTTTTAGGTTTTCTGA ACTACAAGTATTACTAGGCTTTGCTGGACGGAATAAAAGTGGACGCAAGCATGACCTCCT GATGAGGCGCTGCATTTATTGAAGAGCGGCTGCAGCCCTGCGGTTTCAGATTAATAATCCG AGAATTGTATAGACGCCGATATCCACGAACTCTTGAAGGACTTTCTGATTTATCCACAAT CAAATCATCGGTTTTAGTTTTGGATGGTGGCTCATCACCTGTAGAACCTGACTTGGCCGT GGCTGGAATCCACTCGTTGCCTTCCACTTCAGTTACACCTCACTCACCATCCTCTNCTGT TGGTTCTGTGCTCTCAAGATACTAAGCCACATTTGAGATGCAGCAGCCATCTCCCC AATTCTCCTGTCCATCCTGATGTGCAGTTAAAAAATCTGCCCTTTTATGATGCCTTGA TGTTCTCATCAAGCCACGAGTTTAGTTCANAGCAGTATTCAGCGATTTAAAGAGAAGTT NTTTATNTTGTCTTGACACCTCAAACAGTTAGAGAGATATGCATATCCAGNNGATTTTT TGCCANNGTGGTANNAGAGATTATACAGTCCAAGTTCAGTTGAGACTTTGCCTGGCAGA GACAAGTTGCCCTCAAGAAGATNACTATCCCAATAGTCTATGTATAAAAAAGTAATGGAA GCTATTTCTTTGCCTGGCTATGACCCACCGCCTAAANATGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004671 unedited</p> <pre> NAAAGACATTCTCATCTTGTACTTCANNTGCTCTTTATTTAAACAAAACCTTTTTCTACTGA TTTGTAGACTCCATCCATTAACGTATGAAAGTAAATCCATCTCTCAGGAAGATACAGTT ATGGTTGAATGTATCTGATGCTGAGAGTACAGCATAATTAATAAAAAATCCTTGCCTGTCA TTTTGGTTTTCTTGTTCGAGTCTTTTGGGTTTTCCCCCTCTCAAAAAGCCAAAAACCCC TTTTGGTTTTCTTGAATTTCCCCCTTTTTTTAAAAACAAAAAATAAACCTTTTC CCCCAGTTATTCTCTCCCAAAAAGTCTCTTCTTGGATAATAATCCCCACACAC GGGGGGCCCCCTTCTCTCAAAAAATTTTATTCGACTGGGAGAATTTCCCTCT TTCTTTTTTCTACCCCTCTTCTTTCCCTCCCGTGTTCGTTAGACAACATCCTC CCCCTCTCTCACTTCACTCCCGCATGCTCGGCCCGCTTATCACCGTCTTCTTTTC ATTTCCGGCGGAATCGGCCCTTCCCCCCCCACCGTTTTATCCCCGTCCCCCTAGTTT CCCCCTCTGTATCATGTGCGCTCTTCTTCCCTTCCCTACATTCTATTCCCCC GCTGTTCTTCCCTATATTTACCTCCTTTTCCGTTTCTCATCCTTTTTTCATCTTCTCT CCATTTCCGCTTTTGTCTCGCCCTCGTCTCACTGTTTTCCGTCCCTTCTCTCTTTTC TACACGTGCCTACTTCTCGTTGTCCCCACTCTCGCCCCCTTTCTTTCCCTTCTTGT TCGTTCCGTGCCCGCTTTTTTTCTCCCATGCTCCCTTTTGGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004671
Insert Size:	2500 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_004671.2 , NP_004662.2
RefSeq Size:	2360 bp
RefSeq ORF:	1866 bp
Locus ID:	9063
UniProt ID:	O75928
Cytogenetics:	18q21.1
Domains:	SAP, zf-MIZ
Protein Families:	Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Protein Pathways:	Jak-STAT signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis
Gene Summary:	<p>This gene encodes a member of the protein inhibitor of activated STAT family, which function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Isoforms of the encoded protein enhance the sumoylation of specific target proteins including the p53 tumor suppressor protein, c-Jun, and the androgen receptor. A pseudogene of this gene is located on the short arm of chromosome 4. The symbol MIZ1 has also been associated with ZBTB17 which is a different gene located on chromosome 1. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (beta) encodes isoform (beta). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>