

Product datasheet for **SC114401**

PIAS1 (NM_016166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIAS1 (NM_016166) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIAS1
Synonyms:	DDXBP1; GBP; GU/RH-II; ZMIZ3
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 SC114401 sequence for NM_016166 edited (data generated by NextGen Sequencing)

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ATGGCGGACAGTGCAGCACTAAAGCAAATGGTTATGAGCCTTAGAGTTTCTGAACTCCAA
GTACTGTTGGGCTACGCCGGGAGAAAACAAGCACGGACGCAAAACACGAACTTCTCACAAA
GCCCTGCATTTGCTAAAGGCTGGCTGTAGTCTGCTGTGCAAAATGAAAATTAAGGAACTC
TATAGCGGCGGTTCCCACAGAAAATCATGACGCTGCAGACTTGCCATCCCCAACGTA
CATTCAAGTCCATGCCAGCACTTTGTCTCCATCTACCATTCCACAACCTCACTTACGAT
GGTCACCCTGCATCATCACCATTACTCCCTGTTTCTTCTGGGACCTAAACATGAACTG
GAACTCCACATCTTACATCAGCTCTTACCCAGTCCATCCGGATATAAACTTCAAAAA
TTACCATTTTATGATTTACTGGATGAACTGATAAAACCCACCAGTCTAGCATCAGACAAC
AGTCAGCGCTTTTCGAGAAACCTGTTTTGCATTTGCCTTGACACCACAACAAGTGCAGCAA
ATCAGTAGTTCATGGATATTTCTGGGACCAAATGTGACTTCACAGTACAGGTCCAGTTA
AGGTTTTGTTTATCAGAAACCAGTTGTCCACAAGAAGTCACTTCCCACCAATCTTTGT
GTGAAAGTGAATACAAAACCTTGCAGCCTTCCAGTTACCTTCCACCTACAAAAATGGC
GTGGAACCAAAGCGACCCAGCCGACCAATTAATATCACCTCACTGTCCGACTGTCCACA
ACAGTACCAAACAGATTGTTGTTTCTTGGACTGCAGAAATTGGAAGAACTATTCCATG
GCAGTATATCTTGTAAAACAGTTGTCTCAACAGTTCTTCTTCCAGAGTTACGAGCAAAG
GGAATAAGGAATCCGGATCATTCTAGAGCTTTAATTAAGAGAAGTTGACTGCGGATCCA
GACAGTGAATAGCTACAACCAGCCTAAGGGTTTCTCTACTATGTCCACTTGGTAAAAATG
CGGCTGACAAATCCGTGTCCGGCCCTTACATGTTCTCATCTACAATGTTTTGACGCACT
CTTTACATTGAGTGAATGAGAAAAACCAACCTGGGTTTGTCTGTCTGTGATAAGAAG
GACTGTGATGAAATACAATTTAAGGAGGATGGCACTTGGGCACCGATGAGATCAAAAAAG
GAAGTACAGGAAGTTTCTGCCTTTACAATGGAGTCGATGGATGCTTGAGCTCCACATTG
GAGCATCAGTAGCGTCTCACCACAGTCTCAAATAAAAAACAAGAAAGTAGAAGTGATT
GACCTAACCATAGACAGTTCATCTGATGAAGAGGAAGAAGAGCCATCTGCCAAGAGGACC
TGTCTTCCCTATCTCCACATCACCCTAAATAATAAAGGCATTTTAAGTCTTCCACAT
CAAGCATCTCCAGTATCCCGCACCCCAAGCCTTCTGCTGTAGACACAAGCTACATTAAT
ACCTCCCTCATCAAGACTATAGGCATCCTTTCCACATGACCCCATGCCTTACGACTTA
CAAGGATTAGATTTCTTTCTTTCTTATCAGGAGACAATCAGCATTACAACACCTCCTTG
CTTGCCGCTGCAGCAGCAGCAGTTTCAGATGATCAAGACCTCCTACACTCGTCTCGGTTT
TTCCCGTATACCTCCTCACAGATGTTTCTTGTATCAGTTAAGTGCAGGAGGCACTTCT
CTGCCAACCAATGGAAGCAGTAGTGGCAGTAACAGCAGCCTGGTTTCTTCCAACAGC
CTAAGGGAAAGCCATAGCCACACCGTCACAAAACAGGAGCAGCACGGACACGGCATCCATC
TTTGGCATCATACCAGACATTATTTTATTGGACTGA
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Clone variation with respect to NM_016166.1
318 g=>a

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016166 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCAAGATGGCGGACAGTG CGGAACTAAAGCAAATGGTTATGAGCCTTAGAGTTTCTGAACTCCAAGTACTGTTGGGCT ACGCCGGGAGAAACAAGCACGGACGCAAAACACGAACTTCTACAAAAGCCCTGCATTTGC TAAAGGCTGGCTGTAGTCTGTGTGCAAAATGAAAATTAAGGAACTCTATAGGCGGCGGT TCCACAGAAAAATCATGACGCCTGCAGACTTGCCATCCCCAACGTACATTCAAGTCCTA TGCCAGCAACTTTGTCTCCATCTACCATTCCACAACACTTACGATGGTCACCCTGCAT CATCACCATTACTCCCTGTTTCTTCTGGGACCTAAACATGAACTGGAACCTCCACATC TTACATCAGCTCTTACCAGTCCATCCGGATATAAAAATTCAAAAATTACCATTTTATG ATTTACTGGATGAACTGATAAAACCCACCAGTCTAGCATCAGACAACAGTCAGCGCTTTC GAGAAACCTGTTTGCATTTGCCTTGACACCACAACAAGTGCAGCAAAATCAGTAGTTCCA TGGATATTTCTGGGACCAAAATGTGACTTACAGTACAGGTCCAGTTAAGGGTTTTGTTA TCAGAAACCAGTTGTCCACAAGAAGATCACTTCCCACCAATCTTTGTGTGAAAGTGAAT AAAAAACCTTGCAGCCTTTCAGGTTACCTTCCACCTACAAAAAATGGCGTGGAACCAA AGCGACCCAGCCGACCAATTAATATCACCTCACTTGTNGACTGTCCACAACAGTACCCA CACGAATTGTTGTTNCNTGGACTGCAGAAATGGAAGAAATATTATGGCAGTATATCTT GTAACAGNTGCTCAACAGTTCTCTTTCAGAGGTACGGCAAAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016166 unedited CGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTCTTTCCTTTTTTTTTTTAAA CAAGTGTTTTATCACACAGGCAGTCTTAAATTTATATACAAAAGTAAAAGTAAAATATA GTTTTGTCTCTGTACATTTCTTTTAAATTTTTTCCCTAAAAAAGGAAAAAACAACAGCT TGATACTTTTCTAAACAGAGTAAGGTAACAGAGCACAAAGTTCTTCTTTCTGCCA AGTTCATTTCGATCTGGGGTGGGGATGGGAGCAGCAGGGCCTGGGAATCAGTCCAATGAAA TAATGTCTGGTATGATGCCAAAGATGGATGCCGTGTCCGTGCTGCTCCTGTTTGTGACGG TGTGGCTATGGCTTCCCTTAGGCTGTTGGAAGAAACCAGGCTGCTGTTACTGCCACTAC TGCTTCCATTGGTGGTGGCAGAGAAGTACTGCCTCCTGCACTTAACTGATCAAGAAACA TCTGTGAGGAGGTATACGGGAAAAACCGAGACGAGTGTAGGAGGTCTTGATCATCTGAAA CTGCTGCTGCTGCAGCGCAAGCAAGGAGGTGTGTAATGCTGATTGTCTCCTGATAAGA AAGGAAAGAAATCTAATCCTTGTAAAGTCGTAAGGCATGGGTGTCATGTGGAAGGATGCC TATAGTCTTGGATGAGGAGGTATTAATGTACCTTGTGTCTACAGCAGGAAGCTTGGGG TGCGGNATACTGGAGATGCTTGTGTGGAAGACTTANAATGCCTTATTATTTANTGGTGA TGTGGGAGATAGGAAAGACAGGTCCCTCTGGCAAATAGCTCCTCCTTCTTTCATCANAT GAACTGCCTATGGNTANGTCAATCACTTCTACTTCTGNTTTTATTTGAGGACCGGNTG GTGAGCACCTACCTGATGCTCCATGGGGAACTACAGCTTCATCGACTCCATTGGTAGA AGCAAAAACCTNCTGGACTCCCTTTTTGAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016166
Insert Size:	2320 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_016166.1 , NP_057250.1
RefSeq Size:	2309 bp
RefSeq ORF:	1956 bp
Locus ID:	8554
UniProt ID:	O75925
Cytogenetics:	15q23
Domains:	SAP, zf-MIZ
Protein Families:	Druggable Genome, 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 (PIAS) family. PIAS proteins function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. This protein plays a central role as a transcriptional coregulator of numerous cellular pathways including the STAT1 and nuclear factor kappaB pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' structure which results in a distinct 5' UTR and 5' coding region compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus compared to isoform 1. 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>