

Product datasheet for **SC114580**

E3 SUMO protein ligase PIAS4 (PIAS4) (NM_015897) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E3 SUMO protein ligase PIAS4 (PIAS4) (NM_015897) Human Untagged Clone
Tag:	Tag Free
Symbol:	E3 SUMO protein ligase PIAS4
Synonyms:	PIAS-gamma; Piasg; PIASY; ZMIZ6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015897, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGAGCTGGTGGAGGCCAAAAACATGGTGATGAGTTTTTCGAGTCTCCGACCTTCAGATGCTCC
TGGGTTTTCGTGGGCCGAGTAAGAGTGGACTGAAGCACGAGCTCGTCACCAGGGCCCTCCAGCTGGTGCA
GTTTGACTGTAGCCCTGAGCTGTTCAAGAAGATCAAGGAGCTGTACGAGACCCGCTACGCCAAGAAGAAC
TCGGAGCTGCCACAGCCGACCCGGCCCTGGACCCCTGACCATGCACTCCACTACGACCCGGGCCG
GCGCTGTGCCAGGACTCCGCTGGCAGGCCCAATATTGACTACCCCGTGTCTACGAAAGTACTTAA
CGGACTGGGACGGTTGCCCGCAAGACCCTCAAGCCAGAAGTCCGCTGGTGAAGCTGCCGTTCTTTAAT
ATGCTGGATGAGCTGCTGAAGCCACCGAATTAGTCCCACAGAACAACGAGAAGTTCAGGAGAGCCCGT
GCATCTTCGATTGACGCCAAGACAGGTGGAGTTGATCCGGAACCTCCAGGGAAGTGCAGCCCGGAGTTAA
AGCCGTGCAGGTGCTCCTGAGAATCTGTTACTCAGACACCAGCTGCCCTCAGGAGACCAGTACCCGCC
AACATCGTGTGAAGGTCAACCACAGCTACTGCTCCGTCGCCGGGCTACTACCCCTCCAATAAGCCCGGGG
TGGAGCCCAAGAGGCCGTGCCGCCCAACAACCTCACTCACCTCATGTACCTGTCTCGGCCACCAACCG
CATCACTGTCACTGGGGAACTACGGCAAGAGCTACTCGGTGGCCCTGTACCTGGTGGCGCAGCTGACC
TCATCGGAGCTGCTGCAGAGGCTGAAGACCATTGGGGTAAAGCACCCGGAGCTGTGCAAGGCACTGGTCA
AGGAGAAGCTGCGCCTTGATCCTGACAGCGAGATCGCCACCACCGGTGTGCGGGTGTCCCTCATCTGTCC
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GTACCTGGTGGACGGCTCGTGGTGCCCGATCCGCGCCGAAAAGGAGCGCAGCTGCAGCCCGCAGGGCGCC
ATCCTCGTGTGGGCCCTCGGACGCCAATGGGCTCCTGCCCGCCCCAGCGTCAACGGGAGCGGTGCC
TGGGCAGCACGGGTGGCGGCGCCCGTGGGCAGCATGGAGAATGGGAAGCCGGGCGCCGATGTGGTGG
CCTCACGCTGGACAGCTCATCGTCTCGGAGGATGAGGAGGAGGAAGAGGAGGAGGAAGACGAGGAC
GAAGAGGGGCCCGGCCAAGCGCCGCTGCCCTTCCAGAAGGGCTGGTGCCGGCTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015897 unedited
 GGATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGCCAAGAGGCGG
 CGGAGCTGGTGGAGGCCAAAAACATGGTATGAGTTTTCGAGTCTCCGACCTTCAGATGC
 TCCTGGGTTTTCGTGGGCCGGAGTAAGAGTGGACTGAAGCACGAGCTCGTCACCAGGGCCC
 TCCAGCTGGTGCAGTTTACTGTAGCCCTGAGCTGTTCAAGAAGATCAAGGAGCTGTACG
 AGACCCGCTACGCCAAGAAGAAGTCCGAGCCTGCCACAGCCGACCCGGCCCTGGACC
 CCCTGACCATGCACTCCACCTACGACCCGGCCGGCGCTGTGCCAGGACTCCGCTGGCAG
 GCCCAATATTGACTACCCCGTGTCTACGGAAGTACTTAAACGACTGGGACGGTTGC
 CCGCCAAGACCCTCAAGCCAGAAGTCCGCCTGGTGAAGCTGCCGTTCTTTAATATGCTGG
 ATGAGCTGCTGAAGCCCACCAATTAGTCCCACAGAACAACGAGAAGCTTCAGGAGAGCC
 CGTGCATCTTCGATTGACGCCAAGACAGGTGGAGTTGATCCGGAATCCAGGGAATGC
 AGCCCGGAGTTAAAGCCGTGCAGGTCGTCTGAGAATCTGTTACTCAGACACCAGCTGCC
 CTCAGGAGGACCAGTACCCGCCAACATCGCTGTGAAGTCAACCACAGCTACTGCTNCG
 TCCCGGGTACTACCCCTCCAATAAGCCCGGGGTGGAGCCAAAGAGCCGTGCCGNCCC
 ATCAACCTCACTCACCTCATGTACTGTCTCGGCCACCACCGCATCACTGTCACCTGGG
 GAACTACNGCAGAGCTACTNCGTGGCCCTGTACCCTGTGCGCAGCTGACCTCATCNAGC
 TGCTGCANAGCTGAAGACCATTGGGTAAGCACCCGNACTGTGCAGGCACTGGTCAAGAG
 AGCTGCCCTTGATCTGACACGAGTCGCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015897 unedited
 AAAACCTTTTGTCTTTTTTTTCTATTCCCCGCTTGAAGTAGTCCAGTAGGTACAGGAT
 GCCAGGNAGCCAGTGCAAAGGGGTGGGAAAAACAAAACGAACGACAATAAAAAGAAAAA
 GAAGGTCACTCCTCCCTCTGCGCCGAGGCTGGCCCGTCCCTCTGCGTGGTGAGCACC
 AGGAAAGTCGAGTGTGCGCCGGGTGACAGGCCGACACAGGCCCTTCTGGAAGGGGC
 AGCGGGCCTTGGCCGGGGCCCTCTTCGTCTCGTCTTCTCCTCCTCTTCTCCTCCT
 CCTCATCTCCGAGGACGATGAGCTGTCCAGCGTGAAGTCCACCACATCGGCGCCCGGT
 TCCCATTTCCATGTGCCACCCGGGCCGCCACCCGTGTGCCAGGGCACCCTCC
 CGTTGACGCTGGGGCGGGCAGGAGCCATTGGCGTCCGAGGGGCCAGCAGGATGG
 CGCCCTGCGGGTGCAGCTGCGCTCCTTTTCGGCGGGATCGGGCACCAGAGCCGTCCA
 CCAGGTACTCGATCTCGTCGGCTCCTCACACTCGTCTATGATCTTCGAGAGGAGCCCGT
 CGATGAGCTGGTGTAGGGGGTGGCTTGTGCGACACGGGGCACATCCAGGTGGGCT
 TCTTCTCGTTTCTGACGGTAGAAGACGGCGTGAAGCACTGCAGGTGGGCGCAGGTCT
 CTGCCCGCAGGGCACGGAGAGCCGCATCTTACCAGCGACAGATGATGGACACCCGCA
 CACCGGTGGTGGCGATCTCGCTGTCAAGGCGCAGCTTCTCCTTGACCAGTGCCT
 TGCACAGCTCCGGGTGCTTTTACCCCATGGTCTTACGCTCTGCAGCAGCTCCGATGATG
 TCAGTGCCCGCACCAGGTACAGGGGCACCGAGTAGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_015897

Insert Size:

1700 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_015897.2, NP_056981.2</u>
RefSeq Size:	1835 bp
RefSeq ORF:	1533 bp
Locus ID:	51588
UniProt ID:	<u>Q8N2W9</u>
Cytogenetics:	19p13.3
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:	Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.[UniProtKB/Swiss-Prot Function]