

Product datasheet for **RC207034**

PIAS3 (NM_006099) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | PIAS3 (NM_006099) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PIAS3 |
| Synonyms: | ZMIZ5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC207034 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGCTGGGCGAATTAAGCACATGGTGTAGATTCCGGGTGTCTGAGCTCCAGGTGCTTCTTG
 GCTTTGCTGGCCGGAACAAGAGTGGACGGAAGCACGAGCTCCTGGCCAAGGCTCTGCACCTCCTGAAGTC
 CAGCTGTGCCCTAGTGTCCAGATGAAGATCAAAGAGCTTTACCGACGACGCTTTCCCGGAAGACCCTG
 GGGCCCTCTGATCTCTCCCTTCTCTTTGCCCTGGCACCTCTCCTGTAGGCTCCCCTGGTCTCTAG
 CTCCCATTCCCCAACGCTGTTGGCCCTGGCACCTGCTGGGCCCAAGCGTGAGGTGGACATGCACCC
 CCCTCTGCCCCAGCCTGTGCACCCTGATGTACCATGAAACCATTGCCCTTCTATGAAGTCTATGGGGAG
 CTCATCCGGCCACCACCCTTGCATCCACTTCTAGCCAGCGGTTTGGGAAGCGCACTTTACCTTTGCC
 TCACACCCAGCAAGTGCAGCAGATTCTACATCCAGAGAGGTTCTGCCAGGAGCCAAATGTGATTATAC
 CATAAGGTGCAGCTAAGTTCTGTCTCTGTGAGACCAGCTGCCCCAGGAAGATTATTTTCCCCCAAC
 CTCTTTGTCAAGTCAATGGGAAACTGTGCCCTGCGGGTTACCTTCCCCCAACAAGATGGGGCCG
 AGCCCAAGAGGCCAGCCGCCCATCAACATCACACCCTGGCTCGACTCTCAGCCACTGTTCCCAACAC
 CATTGTGGTCAATTGGTTCATCTGAGTTCGGACGGAATTACTCCTTGTCTGTGACCTGGTGGAGCAGTTG
 ACTGCAGGAACCTTCTACAAAACCTCAGAGCAAAGGGTATCCGGAACCCAGACCACTCGCGGGCACTGA
 TCAAGGAGAAATTGACTGCTGACCCTGACAGTGGGTCACCAAGTCTCCGGGTGTCACTCATGTG
 CCCGCTAGGGAAGATGCGCCTGACTGTCCCTTGTCTGTCGCTCACCTGCGCCACCTGCAGAGCTTCGAT
 GCTGCCCTTATCTACAGATGAATGAGAAGAAGCCTACATGGACATGCTCTGTGTGACAAGAAGGCTC
 CCTATGAATCTTATCATTGATGGTTTATTTATGGAGATTCTTAGTTCCTGTTGAGATGTGATGAGAT
 CCAATTCATGGAAGATGGATCCTGGTGCCTCAATGAAACCAAGAAGGAGGCATCTGAGGTTTGCCTCCG
 CCAGGGTATGGGCTGGATGGCCTCCAGTACAGCCAGTCCAGGGGGAGATCCATCAGAGAATAAGAAGA
 AGGTCAAGTTATTGACTTGACAATAGAAAGCTCATCAGATGAGGAGGATCTGCCCTACCAAGAAGCA
 CTGTTCTGTACCTCAGCTGCCATCCCGGCCCTACCTGGAAGCAAAGGAGTCTGACATCTGGCCACCAG
 CCATCCTCGGTGCTAAGGAGCCCTGCTATGGGCACGTTGGGTGGGATTTCTGTCCAGTCTCCACTAC
 ATGAGTACCCACCTGCCTTCCACTGGGAGCCGACATCCAAGGTTTAGATTTATTTTCTTTCTTCCAGAC
 AGAGAGTCACTATGGCCCTCTGTCTCACCTCACTAGATGAACAGGATGCCCTTGGCCACTTCTTC
 CAGTACCGAGGGACCCCTTCTCACTTTCTGGGCCACTGGCCCCACGCTGGGGAGCTCCACTGCAGCG
 CCACTCCGGCGCCCTCCTGGCCGTGTGAGCAGCATTGTGGCCCTGGGGGGCCTTGGAGGAGGGGCA
 TGGAGGACCCCTGCCCTCAGTCCCTTTGACTGGCTGTGCGGTGAGACATCATTTCCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207034 protein sequence
 Red=Cloning site Green=Tags(s)

MAELGELKHMVMSFRVSELQVLLGFAGRNKSGRKHELLAKALHLLKSSCAPSVQMKIKEL YRRRFPKRTL
 GPSDL SLLSLPPGTSPVGSPLAPIPPTLLAPGTL L GPKREVD MHPPLPQVHPDVTMKPLPFYEVYGE
 LIRPTT LASTSSQRFE EAHFTFAL TPQQVQ ILSREVLPGAKCDYTIQVQLRFCLCETSCPQEDYFPPN
 LFVKVNGKLCPLPGYLPPTKNGAEPKRPSRPINITPLARL SATVPNTIVNWSSEFGRNYSLSVYLVRQL
 TAGTLLQKLRAGIRNPDHSRALIKEKL TADPDSEVATSLRVSLMCPLGKMRL TVPCRAL TCAHLQSF
 AALYLQ MNEKPTWTCPVCDKAPYESLIIDGLFMEILSSCSDCEIQFMEDGSWCPMKPKKEASEVCP
 PGYGLDGLQYSPVQGGDPSENKKVEIDL TIESSDEEDLPPTKKHCSVTSAAIPALPGSKGVL TSGHQ
 PSSVLRSPAMGTLGGDFLSSLPLHEYPPAFPLGADIQGLDLFSFLQTESQHYGPSVITSLDEQDALGHFF
 YRGTSPSHFLGPLAPTLGSSHCSATPAPPGRVSSIVAPGGALREGHGGPLPSGPSLTGCRSDIISLD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6020_h08.zip
Restriction Sites: SgfI-MluI
Cloning Scheme:



ACCN: NM_006099
ORF Size: 1884 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

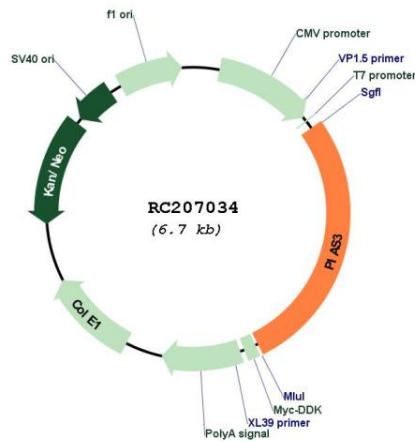
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_006099.3](#), [NP_006090.2](#)
RefSeq Size: 2902 bp
RefSeq ORF: 1887 bp

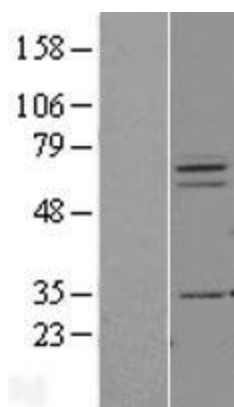
Locus ID: 10401
UniProt ID: [Q9Y6X2](#)
Cytogenetics: 1q21.1
Domains: SAP, zf-MIZ
Protein Families: Transcription Factors
Protein Pathways: Jak-STAT signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis
MW: 68 kDa

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]

Product images:



Circular map for RC207034



Western blot validation of overexpression lysate (Cat# [LY401839]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207034 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).