

Product datasheet for **SC119664**

PSIP1 (NM_033222) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSIP1 (NM_033222) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSIP1
Synonyms:	DFS70; LEDGF; p52; p75; PAIP; PSIP2
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 SC119664 sequence for NM_033222 edited (data generated by NextGen Sequencing)

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ATGACTCGCGATTTCAAACCTGGAGACCTCATCTTCGCCAAGATGAAAGGTTATCCCCAT
TGGCCAGCTCGAGTAGACGAAGTTCCTGATGGAGCTGTAAGCCACCCACAAACAACTA
CCCATTTCTTTTTGAACTCATGAGACTGCTTTTTAGGACCAAAGGATATATTTCT
TACTCAGAAAAAAGGAAAAGTATGGCAAACCAATAAAAGAAAAGGTTTTAATGAAGGT
TTATGGGAGATAGATAACAATCCAAAAGTGAATTTTCAAGTCAACAGGCAGCACTAAA
CAATCAAATGCATCATCTGATGTTGAAGTTGAAGAAAAGGAACTAGTGTTCAAAAGGAA
GATACCGACCATGAAGAAAAGCCAGCAATGAGGATGTGACTAAAAGCAGTTGACATAACT
ACTCCAAAAGCTGCCAGAAGGGGGAGAAAAGAGAAAAGGCAGAAAAACAAGTAGAACTGAG
GAGGCAGGAGTAGTGACAACAGCAACAGCATCTGTTAATCTAAAAGTGAGTCCTAAAAGA
GGACGACCTGCAGCTACAGAAGTCAAGATTCAAAACCAAGAGGCAGACCCAAAATGGTA
AAACAGCCCTGTCCTTCAGAGAGTGACATCATTACTGAAGAGGACAAAAGTAAGAAAAAG
GGCAAGAGGAAAAACAACCTAAAAGCAGCCTAAGAAGGATGAAGAGGGCCAGAAGGAA
GAAGATAAGCCAAGAAAAGAGCCGGATAAAAAAGAGGGGAAGAAAAGTTGAATCAAAA
AGGAAAAATTTAGCTAAAACAGGGGTTACTTCAACCTCCGATTCTGAAGAAGAAGGAGAT
GATCAAGAAGGTGAAAAGAAGAGAAAAGGTGGGAGGAACTTTCAGACTGCTCACAGAAGG
AATATGCTGAAAGGCCAACATGAGAAAAGCAGCAGATCGAAAACGCAAGCAAGAGGAA
CAAATGGAAACTGAGCAGCAGAAATAAGATGAAGGAAAGAAGCCAGAAAGTTAAGAAAAGTG
GAGAAGAAGCGAGAAACATCAATGGATTCTCGACTTCAAAGGATACATGCTGAGATTA
AATTCACCTCAAAATGATAATCTTGATGTGAACAGATGCATTGAGGCCTTGGATGAAC
GCTTCACTTCAGGTCACAATGCAACAAGCTCAGAAACACACAGAGATGATTACTACTG
AAAAAATACGGCGATTCAAAGTTAGTCAGGTAATCATGGAAAAGTCTACAATGTTGTAT
AACAAAGTTTAAGAACATGTTCTTGGTTGGTGAAGGAGATTCCGTGATCACCCAAGTGCTG
AATAAATCTCTTCTGCTGAACAAAGACAGCATGAGGAAGCGAATAAAACCAAAGATCAAGGG
AAGAAAAGGCCAAAACAAAAGCTAGAGAAGGAACAAACAGGGTCAAAGACTCTAAATGGA
GGATCTGATGCTCAAGATGGTAATCAGCCACAACATAACGGGGAGAGCAATGAAGACAGC
AAAGACAACCATGAAGCCAGCACGAAGAAAAGCCATCCAGTGAAGAGAGAGAGACTGAA
ATATCTCTGAAGGATTCTACACTAGATAACTAG
    
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Clone variation with respect to NM_033222.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_033222 unedited
GGTGTTCAGCATTTGTNAATACTACTACTATAGGCGGCCGNAATTCGCACGAGGCAT
CCCCGCGCCGCCGCATCCTCCTCGCCGCTCCCGGNGCTTCGNACCCCCGGTCTCGCCC
CCGAACATGACTCGCGATTTCAAACCTGGAGACCTCATCTTCGCCAAGAGAAGGTTATCC
CCATTGGCCAGCTCGAGTAGACGAAGTTCCTGATGGAGCTGTAAGCCACCCACAACAA
ACTACCCATTTCTTTTTGAACTCATGAGACTGCTTTTTTAGGACCAAAGGATATATT
TCCTTACTCAGAAAAAAGGAAAAGTATGGCAAACCAATAAAAGAAAAGGTTTTAATGA
AGGTTTTATGGGAGATAGATAACAATCCAAAAGTGAATTTTCAAGTCAACAGGCAGCAAC
TAAACAATCAAATGCATCATCTGATGTTGAAGTTGAAGAAAAGGAACTAGTGTTCAAA
GGAAGATACCGACCATGAAGAAAAGCCAGCAATGAGGATGTGACTAAAGCAGTTGACAT
AACTACTCCAAAAGCTGCCAGAAGGGGGAGAAAAGAGAAAAGGCAGAAAAACAAGTAGAAAC
TGAGGAGGCAGGAGTAGTGACAACAGCAACAGCATCTGTTAATCTAAAAGTGAGTCTAA
AAGAGGACGACCTGCAGCTACAGAAGTCAAGATTCAAAACCAAGAGGCAGACCCAAAAT
GGGTAAAACAGCCCTGTCCCTTCAGAAAAGTACATCATTACTTGAAGAGGACAAAAGTA
AGTAAAAGGGGGCCAGAGGAACAACCACCTAAAAGCCGCTTAGAAAAGTGAAGAGGGC
CCAGAAAAGGAAGAAGAAAACCCAGAAAAGAGCCGGATAAAAAAGGAGGGGAAGCAAGAAG
TTGGAATCAAAAAGGAAAAATTA
    
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3' Read Nucleotide Sequence: >OriGene 3' read for NM_033222 unedited
 CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGATAGAAAAATCTTTAATGAA
 AACAAAGTTTACACGTTGAACTTATGGCTTAACTAGAAATAAATCTAAGTAAGTTAAAAGT
 TATAAGGACCAACAGATAATGACTGGTATATATGCAGGTTCTCTCAAAACGGTGATTCC
 TAGTTCATTATAAGACCTCTTTAAAAGCAAAAATGCAATTCTGTAGATGAAAACAGTTA
 TCTCAGAGGGTCAACCACACAATGTCATACAGAGACGCTGGTCTTAAGCCATTTTTTCC
 ATATTCATATAATTTCAAACATGAGAAGTATCCTACTTGTGAGAAGTGCCAAATGACC
 CTAATATTCAAAATATCTTAGAAAATGCTATCCTTTAGTTAACATACCCTTAAATTTTGT
 ACATTGATTTTACCCTGGATTTAGTCCATACACGTCATGTACAGACTTATCAAAGTACA
 ATGCTGGAACAAC TAGTGTATTGTTTTGGAATCTAGAAAATAAAAACAATATAGCCAT
 GATTTCAAATAGGTGAGTTTCCTTATATAACATTTATTCATATTTATTGTATAAGCATCA
 TGATTTTTTCTTCAATTAAGTTTTAGTGACTTCTAAAGACATTTTTAACAAACATTCT
 CAAAAATAAACTTACTTAAGTTTTAGTCTAGTACTAGTGCCTGCTATAAAAGACCT
 TAAATGATTTAACCTAAGCCAGATCATTCTAATATACCCAGTCAGGTGGCTGAAAAGA
 ATCTTAAGACTTACTGATGCCACCCAAAACCTAATACCTTTAAAAATAAGGTCTATAG
 TTGTAATACTAACTCAACGCAGGTGCTAATACGTGGCTTCCCAAAAACCCTTCTACCC
 ACTTGTCCAAAAACTGGTAATGGACCCATTGTATGGGAAATAA

Restriction Sites: NotI-NotI

ACCN: NM_033222

Insert Size: 3100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_033222.2](#), [NP_150091.2](#)

RefSeq Size: 3377 bp

RefSeq ORF: 1593 bp

Locus ID: 11168

UniProt ID: [O75475](#)

Cytogenetics: 9p22.3

Domains: PWWP

Protein Families: Stem cell - Pluripotency, Transcription Factors

Gene Summary: Transcriptional coactivator involved in neuroepithelial stem cell differentiation and neurogenesis. Involved in particular in lens epithelial cell gene regulation and stress responses. May play an important role in lens epithelial to fiber cell terminal differentiation. May play a protective role during stress-induced apoptosis. Isoform 2 is a more general and stronger transcriptional coactivator. Isoform 2 may also act as an adapter to coordinate pre-mRNA splicing. Cellular cofactor for lentiviral integration.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, 3' UTR, and 3' coding region, compared to variant 1. This results in a protein (isoform 2) with a longer, distinct C-terminus, compared to isoform 1. Variants 2 and 3 encode the same protein (isoform 2).