

## Product datasheet for **RC225909**

### PSIP1 (NM\_001128217) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSIP1 (NM_001128217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSIP1
Synonyms:	DFS70; LEDGF; p52; p75; PAIP; PSIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC225909 representing NM\_001128217  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTCGCGATTTCAAACCTGGAGACCTCATCTTCGCCAAGATGAAAGTTATCCCATTTGGCCAGCTC  
 GAGTAGACGAAGTTCCTGATGGAGCTGTAAAGCCACCCACAAACAACTACCCATTTCTTTTTTGGAAC  
 TCATGAGACTGCTTTTTTAGGACCAAAGGATATATTTCTTACTCAGAAAATAAGGAAAAGTATGGCAAA  
 CCAATAAAAGAAAAGTTTAAATGAAGTTTATGGGAGATAGATAACAATCCAAAAGTAAATTTTCAA  
 GTCAACAGGCAGCAACTAAACAATCAAATGCATCATCTGATGTTGAAGTTGAAGAAAAGGAACTAGTGT  
 TTCAAAGGAAGATACCGACCATGAAGAAAAGCCAGCAATGAGGATGTGACTAAAGCAGTTGACATAACT  
 ACTCCAAAAGCTGCCAGAAGGGGAGAAAAGAGAAAGCCAGAAAACAAGTAGAACTGAGGAGGCAGGAG  
 TAGTGACAACAGCAACAGCATCTGTTAATCTAAAAGTGAGTCCTAAAAGAGGACGACCTGCAGCTACAGA  
 AGTCAAGATTCAAAACCAAGAGGCAGACCCAAAATGGTAAAACAGCCCTGTCTTCAGAGAGTGACATC  
 ATTACTGAAGAGGACAAAAGTAAGAAAAGGGCAAGAGGAAAACAACCTAAAAAGCAGCTAAGAAGG  
 ATGAAGAGGGCCAGAAGGAAGAAGATAAGCCAAGAAAAGAGCCGGATAAAAAAGAGGGGAAGAAAAGAT  
 TGAATCAAAAAGGAAAAATTTAGCTAAAACAGGGTTACTTCAACCTCCGATTCTGAAGAAGAAGGAGAT  
 GATCAAGAAGGTGAAAAGAAGAGAAAAGTTGGGAGGAACTTTCAGACTGCTCACAGAAGGAATATGCTGA  
 AAGGCCAACATGAGAAAGAAGCAGCAGATCGAAAACGCAAGCAAGAGGAACAATGGAACTGAGCAGCA  
 GAATAAAGATGAAGGAAAGAAGCCAGAAGTTAAGAAAGTGAGAAAGAAGCAGAAACATCAATGGATTCT  
 CGACTTCAAAGGATACATGCTGAGATTAATAATCACTCAAATGATAATCTTGATGTGAACAGATGCA  
 TTGAGGCCCTTGGATGAACCTTGCCTCAGTCAAGTCAACAAGCTCAGAAACACAGAGATGAT  
 TACTACTGAAAAAATACGGCGATTCAAAGTTAGTCAGGTAATCATGAAAAGTCTACAATGTTGTAT  
 AACAAAGTTTAAGAACATGTTCTTGGTTGGTGAAGGAGATTCCGTGATCACCCAAGTGTGAATAAATCTC  
 TTGCTGAACAAAGACAGCATGAGGAAGCGAATAAAACCAAAGTCAAGGGAAAGAAAGGGCCAAACAAAA  
 GCTAGAGAAGGAACAACAGGGTCAAAGACTCTAATGGAGGATCTGATGCTCAAGATGGTAATCAGCCA  
 CAACATAACGGGGAGAGCAATGAAGACAGCAAAGACAACCATGAAGCCAGCACGAAGAAAAGCCATCCA  
 GTGAAGAGAGAGACTGAAATATCTCTGAAGGATTCTACTAGATAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC225909 representing NM\_001128217  
 Red=Cloning site Green=Tags(s)

MTRDFKPGDLIFAKMKGYPHWPARVDEVPDGAVKPPTNKLPIFFFGTHETAFLGPKDIFPYSENKEYGK  
 PNKRKGFNEGLWEIDNPNKVKFSSQQAATKQSNASSDVEVEEKETSVSKEDTDHEEKASNEDVTKAVDIT  
 TPKAARRGRKRKAQVETEEAGVVTATASVNLKVSPPKRRPAATEVKIPKPRGRPKMVKQPCPSESDI  
 ITEEDKSKKKGQEEKQPKKQPKKDEEGQKEEDKPRKEPKKEGKKEVESKRKNLAKTGVTSTSDSEEEGD  
 DQEGEKRRKGRNFQTAHRRNMLKGQHEKEAADRKRKQEEQMETEQQNKDEGKKPEVKKVEKKRETSMSD  
 RLQRIHAEIKNSLKIDNLDVNRCEALDELASLQVTMQQAQKHTEMITTLKKIRRFKVSQVIMEKSTMLY  
 NKFKNMFLVGEQSVITQVLNKSLEAQRQHEEANKTKDQGGKGNKLEKEQTGSKTLNGGSDAQDGNQP  
 QHNGESNEDSKDNHEASTKKKPSSEERE TEISLKDSTLDN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001128217

**ORF Size:** 1590 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\\_001128217.2](#)

**RefSeq ORF:** 1593 bp

**Locus ID:** 11168

**UniProt ID:** [O75475](#)

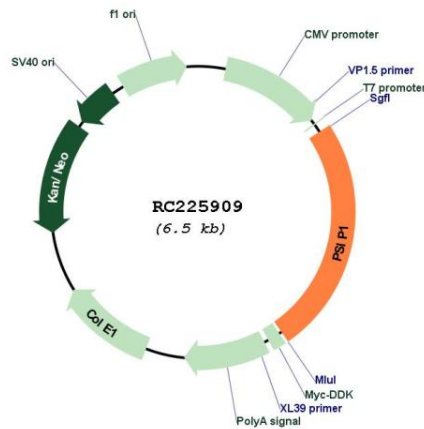
**Cytogenetics:** 9p22.3

**Protein Families:** Stem cell - Pluripotency, Transcription Factors

**MW:** 59.9 kDa

**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]

**Product images:**



Circular map for RC225909