

Product datasheet for **RG218641**

PSIP1 (NM_033222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSIP1 (NM_033222) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSIP1
Synonyms:	DFS70; LEDGF; p52; p75; PAIP; PSIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218641 representing NM_033222
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCGCGATTTCAAACCTGGAGACCTCATCTTCGCCAAGATGAAAGTTATCCCCATTGGCCAGCTC
 GAGTAGACGAAGTTCCTGATGGAGCTGTAAAGCCACCCACAAACAACTACCCATTTCTTTTTGGAAC
 TCATGAGACTGCTTTTTAGGACCAAAGGATATATTTCTTACTCAGAAAATAAGGAAAAGTATGGCAAA
 CCAATAAAAGAAAAGGTTTTAATGAAGGTTTATGGGAGATAGATAACAATCCAAAAGTAAATTTTCAA
 GTCAACAGGCAGCAACTAAACAATCAAATGCATCATCTGATGTTGAAGTTGAAGAAAAGGAACTAGTGT
 TTCAAAGGAAGATACCGACCATGAAGAAAAGCCAGCAATGAGGATGTGACTAAAGCAGTTGACATAACT
 ACTCCAAAAGCTGCCAGAAGGGGAGAAAAGAGAAAGCCAGAAAACAAGTAGAACTGAGGAGGCAGGAG
 TAGTGACAACAGCAACAGCATCTGTTAATCTAAAAGTGAGTCTAAAAGAGGACGACCTGCAGCTACAGA
 AGTCAAGATTCAAAACCAAGAGGCAGACCCAAAATGGTAAAACAGCCCTGTCTTCAGAGAGTGACATC
 ATTACTGAAGAGGACAAAAGTAAGAAAAGGGCAAGAGGAAAACAACCTAAAAAGCAGCTAAGAAGG
 ATGAAGAGGGCCAGAAGGAAGAAGATAAGCCAAGAAAAGAGCCGGATAAAAAAGAGGGGAAGAAAAGAT
 TGAATCAAAAAGGAAAAATTTAGCTAAAACAGGGTTACTTCAACCTCCGATTCTGAAGAAGAAGGAGAT
 GATCAAGAAGGTGAAAAGAAGAGAAAAGGTGGGAGGAACTTTCAGACTGCTCACAGAAGGAATATGCTGA
 AAGGCCAACATGAGAAAAGAAGCAGCAGATCGAAAACGCAAGCAAGAGGAACAAATGGAACTGAGCAGCA
 GAATAAAGATGAAGAAAAGAAGCCAGAAGTTAAGAAAGTGAGAAAAGAAGCAGAAAACATCAATGGATTCT
 CGACTTCAAAGGATACATGCTGAGATTAATAATCACTCAAATGATAATCTTGATGTGAACAGATGCA
 TTGAGCCCTTGGATGAACCTTCACTTCAGGTCACAATGCAACAAGCTCAGAAAACACAGAGATGAT
 TACTACACTGAAAAAATACGGCGATTCAAAGTTAGTCAGGTAATCATGAAAAGTCTACAATGTTGTAT
 AACAAAGTTTAAGAACATGTTCTTGGTTGGTGAAGGAGATTCCGTGATCACCCAAGTCTGAATAAATCTC
 TTGCTGAACAAAGACAGCATGAGGAAGCGAATAAAACCAAAGTCAAGGGAAAGAAAGGGCCAAACAAAA
 GCTAGAGAAGGAACAAACAGGGTCAAAGACTCTAATGGAGGATCTGATGCTCAAGATGGTAATCAGCCA
 CAACATAACGGGGAGAGCAATGAAGACAGCAAAGACAACCATGAAGCCAGCACGAAGAAAAGCCATCCA
 GTGAAGAGAGAGAGACTGAAATATCTCTGAAGGATTCTACTAGATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218641 representing NM_033222
 Red=Cloning site Green=Tags(s)

MTRDFKPGDLIFAKMKGYPHWPARVDEVPDGAVKPPTNKLPIFFFGTHETAFLGPKDIFPYSENKEYGK
 PNKRKGFNEGLWEIDNNPKVKFSSQQAATKQSNASSDVEVEEKETSFSKEDTDHEEKASNEVDTKAVDIT
 TPKAARRGRKRKAQVETEAGVTTATASVNLKVSPPKGRPAATEVKIPKPRGRPKMVQPCPSESDI
 ITEEDKSKKKGQEEKQPKKQPKKDEEGQKEEDKPRKEPKKEGKKEVESKRKNLAKTGVTSTSDSEEEGD
 DQEGEKRRKGRNFQTAHRRNMLKGQHEKEAADRKRKQEEQMETEQQNKDEGKKPEVKKVEKKRETSMSD
 RLQRIHAEIKNSLKIDNLDVNRCEALDELASLQVTMQQAQKHEMITTLKKIRRFKVSQVIMEKSTMLY
 NKFKNMFLVGEQSVITQVLNLSLAEQRQHEEANKTKDQKKGPNKLEKEQTGSKTLNGGSDAQDGNQP
 QHNGESNEDSKDNHEASTKKKPSSEERE TEISLKDSTLDN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_033222

ORF Size: 1590 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](#)

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.

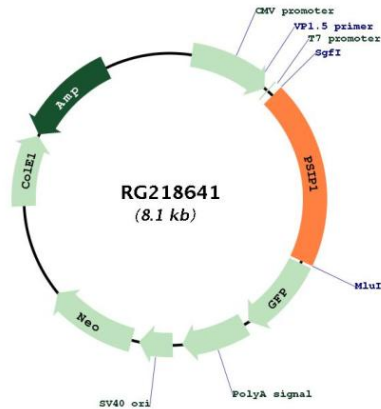
RefSeq: [NM_033222.5](#)

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]

Product images:



Circular map for RG218641