

Product datasheet for **SC128000**

Phosphoserine phosphatase (PSPH) (NM_004577) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoserine phosphatase (PSPH) (NM_004577) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phosphoserine phosphatase
Synonyms:	PSP; PSPHD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004577 edited

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TGCTCGACGGTGCCCTAGGTGCCGTGGGGCCACACGCGAGTCTGATAAGCACCCCTCCCC
GGAATCATGCGGTGCTGTGAGGCCTAGCGAAGATGAAGATAGAATGCAAGGTAGAAAGTG
CTGGATACCTTTAGAAAGCTGCAGGACTGGTGCGATGGGAGTTGAGACGTAAGAACCTGC
CCGTCCGTAGGGCTCTGGATGCTGCTGAGGCCCGAGGCCCTATGGCAGATTTGAAAATT
CACCTTGTAGAGTCATTCTGCCTTTGAGCGGACTCCCTTTAAGCAGATCTCAAGAGA
GCGTTCCGTGGAGGCCCTGGGTCTGCACAGCTCACCTCCCTGGGAAGTCTCGCCCGAGC
GTCGGAGCCGGCGCTGGCCCCCTGCAGCCGGAAGGTTGCAGCCGAGGAGCCCCGGAGGC
CCAGGACACAGGGCTCTTGCTCTGCAGAATCCACAGGCTTTTCTTGAGGAAATCTGTAG
ACAGAAGTTTGTGCTGCGTTTTTATCTAGGGAAGGAACAGAAGAGTGTCTCTCTAGAA
ATCTAGCACTGGAGAAACGAGGAAAATTCTCCAGCGATGGTCTCCCACTCAGAGCTGAG
GAAGCTTTTCTACTCAGCAGATGCTGTGTGTTTGTATGTTGACAGCACGGTCATCAGAGA
AGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGGTGTGAGAAATGAC
ACGGCGAGCCATGGGCGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCT
CATCCAGCCCTCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCACACCTGAC
CCCCGGCATAAGGGAGCTGGTAAGTCGCCTACAGGAGCGAAATGTTCAAGTTTTCTTAAT
ATCTGGTGGCTTTAGGAGTATTGTAGAGCATGTTGCTTCAAAGCTCAATATCCCAGCAAC
CAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATGCAGGTTTTGATGA
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ATTTTCATTTTAAGAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCC
TCCTGCTGATGCTTTTCATTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAA
CGCCAAATGGTATATCACTGATTTTGTAGAGCTGCTGGGAGAACTGGAAGAATAACATCC
ATTGTCGTACAGCTCAAACAACCTTCAGATGAATTTTACAAGTTATACAGATTGATACT
GTTTGCTTACAGTTGCCTATTACAACCTTGCTATAGAAAGTTGGTACAAATGATCTGTACT
TTAAACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTAACTGTAGTTCCA
GTATTATATGATGACTATTGATTTCTGGAGAGGTTTTTTTTTTTTTTTGGAGACAGAATC
TTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGCGGTCTCGGCTCACTGCAAGCTCTGCC
TCCCAGGTTACGCCATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCC
GCCACCACATCCGGCTAATTTTTGTATTTTGTAGAGACGGGGTTTGACCGTGTAGC
CAGGATGGTCTTGATCTCTGACCTTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATTACAGGCTTGGGCCACGCGCCAGCCAATGTCCTAGAGAGTTTTGTGATCTGAATT
CTTTATGTATATTTGTAGCTATATTTATACAAAGTGCTTTAAGTGTGGAGAGTCAATTA
AACACCTTTACTCTTAGAAATACGGATTGCGCAGCCTTCAGTGAATATTGGTTTCTCTTT
GGTATGTCAATAAAAGTTTATCCGTATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004577 unedited</p> <pre>GGTCAGAAATTTGTATACGACTCATATAGCGGACCGCGAATTCNATCTGGTACCGGTCCG GAATTCCTCCGGGATATCGTCGACCCACGCGTCCGTGCTCGACGGTGCCCTAGGTGCCGTGG GGCCACACGCGAGTCTGATAAGCACCCCTCCCCCGGAATCATGCGGTGCTGTGAGGCCTAG CGAAGATGAAGATAGAATGCAAGGTAGAAAGTGCTGGATACCTTTAGAAAGCTGCAGGAC TGGTGCGATGGGAGTTGAGACGTAAGAACCTGCCCGTCCGTAGGGCTCTGGATGCTGCTG AGGCCCCGAGGCCCTATGGCAGATTTGAAAATTACCCCTTGAGAGTCATTCTGCCTTT GAGCGGACTCCCTTTTAAGCAGATCTCAAGAGAGCGTTCCGGTGGAGGCCCTGGGTCTGCA CAGCTCACCTCCCTGGGAAGTGTGCGCCGAGCGTCGGAGCCGGCGCTGGCCCCCTGCAG CCGGAAGGTTGACGCCGAGGAGCCCGGAGGCCAGGACACAGGGCTCTTGCTCTTGCA GAATCCACAGGTCTTTCTTGANGAAATCTGTAGACAGAACTTTGTGCTGCGTTTTATCT AGGGAAGGAAACAGAGAGTGTCTCTCTAGAAATCTAGCACTGGAGAAACGAGGAAAAT TTCTTCAGCGATGGTCTCCCACTCAGAGCTGAGGAAAGCTTTCTACTCAGCAGATGCTGT GTNGTTTGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAAT CTGTGGCGTTGAGGACGCGGTGTGAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCC TTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCATCCAGCCCTCCAGGAGCAGGTGC AGAGACTCAT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004577
Insert Size:	2100 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:	NM_004577.3 , NP_004568.2
RefSeq Size:	2142 bp
RefSeq ORF:	678 bp
Locus ID:	5723
UniProt ID:	P78330
Cytogenetics:	7p11.2
Protein Families:	Druggable Genome, Phosphatase

Protein Pathways:

Glycine, serine and threonine metabolism, Metabolic pathways

Gene Summary:

The protein encoded by this gene belongs to a subfamily of the phosphotransferases. This encoded enzyme is responsible for the third and last step in L-serine formation. It catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. Deficiency of this protein is thought to be linked to Williams syndrome. [provided by RefSeq, Jul 2008]