

SUPPLEMENTARY MATERIALS

Table 1. Phosphatase Model Substrates Screen

1. 5'-AMP	16. CDP	31. Pyrophosphate	46. Fructose-1,6-bisP	61. inositol hexakis-P
2. 5'-CMP	17. GDP	32. NADP	47. Erythrose-4P	62. 2-deoxy-glucose-6P
3. 5'-GMP	18. IDP	33. FMN	48. Trehalose- 6P	63. 2-deoxy-ribose-5P
4. 5'-IMP	19. TDP	34. P-Enolpyruvate	49. Thiamine-P	64. Polyphosphate
5. 5'-TMP	20. UDP	35. CoA	50. Thiamine-PP	65. 5-P-ribosyl-1Ppi
6. 5'-UMP	21. ATP	36. P-Choline	51. Glucose-1,6-bisP	66. 2P-Glycerate
7. 2'-AMP	22. CTP	37. Glucose-1P	52. P-Serine	67. 3P-Glycerate
8. 2'-CMP	23. GTP	38. Glucose-6P	53. P-Threonine	68. Dihydroxyacetone-P
9. 3'-AMP	24. ITP	39. Fructose-1P	54. P-Tyrosine	69. 3P-Glyeraldehyde
10. 3'-CMP	25. TTP	40. Fructose-6P	55. P-Arginine	70. Pyridoxal-P
11. dAMP	26. UTP	41. Ribose-5P	56. P-Glycolate	71. Sucrose-6P
12. dCMP	27. dATP	42. Imido-diP	57. β -Glycero-P	72. Phosphonoacetate
13. dGMP	28. dCTP	43. Mannose-1P	58. P-Ascorbate	73. PI(5)P
14. dTMP	29. dGTP	44. Mannose-6P	59. Glucoseamine-6P	74. PI(3)P
15. ADP	30. dTTP	45. Galactose-1P	60. 6P-Gluconate	

Abbreviations: 5'-AMP, adenosine 5'-monophosphate; 5'-CMP, cytidine 5'-monophosphate; 5'-GMP, guanosine 5'-monophosphate; 5'-IMP, inosine 5'-monophosphate; 5'-TMP, thymidine 5'-monophosphate; 5'-UMP, uridine 5'-monophosphate; 2'-AMP, adenosine 2'-monophosphate; 2'-CMP, cytidine 2'-monophosphate; 3'-AMP, adenosine 3'-monophosphate; 3'-CMP, cytidine 3'-monophosphate; dAMP, 2'-deoxyadenosine monophosphate; dCMP, 2'-deoxycytidine monophosphate; dGMP, 2'-deoxyguanosine monophosphate; dTMP, 2'-deoxythymidine monophosphate; ADP, adenosine 5'-diphosphate; CDP, cytidine 5'-diphosphate; IDP, inosine 5'-diphosphate; TDP, thymidine 5'-diphosphate; UDP, uridine 5'-diphosphate; ATP, adenosine 5'-triphosphate; CTP, cytidine 5'-triphosphate; GTP, guanosine 5'-triphosphate; ITP, inosine 5'-triphosphate; TTP, thymidine 5'-triphosphate; UTP, uridine 5'-triphosphate; dATP, 2'-deoxyadenosine 5'-triphosphate; dCTP, 2'-deoxycytidine 5'-triphosphate; dGTP, 2'-deoxyguanosine 5'-triphosphate; dTTP, 2'-deoxythymidine 5'-triphosphate; NADP, nicotinamide adenine dinucleotide phosphate; FMN, flavin mononucleotide; CoA, Coenzyme A; PI(5)P, L-alpha-phosphotidyl-D-myo-inositol 5-monophosphate; PI(3)P, L-alpha-phosphotidyl-D-myo-inositol 3-monophosphate.