

# Cyanobacterial Signature (ADP-Glucose pyrophosphorylase)

(Gupta, R.S. et al.(2003) IJSEM 53: 1833-1842)

		185	225	
<b>Plastids 1</b>	<b>Cyanobacteria</b>	Synechocystis PCC 6803	16332282	FSEKPGGEALRAMQ VDTSVLGLSAEKAK LNPIYASMGIIYVF
		Nostoc punctiforme	23126438	----K----TQ-----TK-Q-Q KQ-----
		Trichodesmium erythraeum	23040615	----K-N--K--A----I--V-P-I-T KQ-----
		Pro. marinus pastoris	23122620	----T--K-KS-A----KF--TK-S-S EK--L-----
		Synechococcus WH 8102	23133659	-R---K-DS-LE-A----RF----NS-- ER--L-----
		Pro. marinus MIT 9313	23131224	-R---K--S-K-A----RF-----S-R NK--L-----
		Thermosyn. elongatus	22298830	-R---T-D--D-R----TRY--TI-E-H RK-----
		Nostoc sp. PCC 7120	17232137	----K----TK-R----T----TP-Q-A SQ-----
		Arabidopsis thaliana	15239684	----K-DD-K-A----TI----K-E-E KK-----V--
		Zea mays	14582768	-A--K-DQ-K-M----TI--DD-R-- EM-----
		Spinacia oleracea	633678	-A--K--Q-Q-K----TI--DD-R-- EM-----
		Pisum sativum	1237082	-A--K--Q-K-K----TI--DD-R-- EM-F-----
		Solanum tuberosum	21403	-A--K--Q-Q-K----TI--DDKR-- EM-F-----
		Triticum aestivum	82597	----K-DD-E-K----F-NFAIDDPA KY-----V--
		Oryza sativa	22831238	-L---KD-S-KS--L-MGTF--RP-V-D TCK-M-----
		Arabidopsis thaliana	25288667	----K-DD-K----I--PPKE-A ES-----V--
		Solanum tuberosum	82265	-A--K-FD-K-A----TLV---PQD-- KS-----V--
		Pisum sativum	1619325	----K-ADPK----T----KDE-L EK-----V--
Triticum aestivum	21677	----R-AD-KE-E E-E KKP-----V-I		
<b>Plastids 2</b>	<b>Other Bacteria</b>	Escherichia coli	299130	-V---ANPPSMPND PSKSL-----
		Shigella flexneri	24114696	-V---ANPPSMPND PSKSL-----
		Salmonella typhimurium	16766822	-V---ANPPAMPGD ASKSL-----
		Haemophilus somnus	23467252	-V---KDPPAIPNK PDTSL-----
		Vibrio cholerae	15601455	-V---ADPPCIPNR PDHSL-----I-
		Shewanella oneidensis	24373072	-E---LPKHCPGN PEKCL---N--
		Salmonella enterica	16762765	-V---ANPPAMPGD ASKSL-----
		Yersinia pestis	16124068	-Y---ANPPPDPGD PSNAL-----I-
		Microbulbifer degradans	23029646	-D---RPTL-NK PGYTL---N--
		Novo. aromaticivorans	23107901	-V---ANPPGIPGN EDMAL-----
		Pasteurella multocida	15602408	-V---KDPPAMVGK P-TSL-----
		Haemophilus influenzae	16273269	-V---KDPPAMVGK PDVSL-----
		Burkholderia fungorum	22987655	-V---ADPPAIPGR PDTAL-----
		Nitrosomonas europaea	22955853	-A---EHP-PIPGK PGHALI-----
		Agrobacterium tumefaciens	729581	-I---ADPPGIPGN EGFAL-----
		Mesorhizobium loti	14279431	-V---ADPPGIPGN PEFAL-----
		Rhodobacter sphaeroides	5834406	-L---ADPPGIPGD EANAL-----
		Rhizobium tropici	11493198	-V---ADPPGIPGN PDFAL-----
		Sinorhizobium meliloti	15966598	-V---ADPPGIPGN PDMAL-----
		Rhodospirillum rubrum	19554293	-L---ANPPGIPGR PDRAF-----I-
		Rhodospseudomonas palustris	22962374	-L---ADPPAMPVK ADKSLV-----
		Mag. magnetotacticum	23014471	-D---ANPQMPGH PDQAL-----I-
		Magnetococcus sp. MC-1	22998476	-L---TPPELPNR PGWAL-----I-
		Geobacter metallireducens	23055090	-E---ANPVTIPGR ETCF ---N-I-
Thermus caldophilus	2731770	-Q---EKPPIGR PDMAL---N-I-		
Deinococcus radiodurans	15806692	-H--VPDPPTIPG- ADLSLT---N-I-		
Mycobacterium leprae	15827523	-T---LKPPGTPDD PDKTFV---N-I-		
Myc. tuberculosis H37Rv	15608353	-V---LEPPGTPDD PDTTFV---N-I-		
Bifidobacterium longum	23465440	-Q---PTTTGLPDN P-QIL---N--		
Streptomyces coelicolor	21219479	-L---ADPPGL-DD PGCVF---N--		