

Ac.bau.7740-BJAB07104 03145-YP 008210608.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.2152-M3Q 3290-YP 006849607.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.1717-ABTW07 3281-YP 005800158.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.867-AIS 2813-YP 001085821.1-1-COG1 -----QYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.1036-AB57 3313-YP 002320627.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.2306-ABD1 27580-YP 007597303.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.1266-ABSDP0640-YP 001706255.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.1127-ABRFA 000649-YP 002324573.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.1284-ABAY0669-YP 00712637.1-1-COG1 -----AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.7741-BJAB0715 03212-YP 0008218360.1-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ac.bau.7918-P795 3090-REF PRJNA219230.P795 3090-1-COG1 --AFEMRQGYFVAPLGEVSEVIYPPK-YTPVNPQ-SWVKGLANIGRLLSVSDLAHIFSGQRSS-----FSSTQKVLCSHHDQYVGLVDQVGLGQHFNKRSFFSES-LDLEENLKEYCQGYFHQN
Ps.sp..735-PsycPfwf 2157-YP 001281407.1-1-COG1 GVAFPCVAGLNFVAP1GEVTEVISEFNLSPEVPMKS-PWMLGIANIGRLLPVLVDSFVNLSGTA-----EQLNRKRVLVVQKQIVAGLLVDVTHWIKNFPLPKHLYPEH-LPAGAPFLPYTHGQVFTDLEAW1FRPSLLL
Ps.cry.692-Pcrgy 2099-YP 581360.1-1-COG1 GVVEF1GGQRVLVAMPQVAVLSMPE-YTSVPLVK-PWMLGIANIGRLLPVLVDSFVNLSGTA-----AQMSQRKVMV1DHNVFSGLLVDQVIGIEQFTQDQYRPEAIE
Ps.sp..7728-PSYCG 11360-YP 008164130.1-1-COG1 GVVEF1GGQRVLVAMPQVAVLSMPE-YTSVPLVK-PWMLGIANIGRLLPVLVDSFVNLSGTA-----AQMSQRKVMV1DHNVFSGLLVDQVIGIEQFTQDQYRPEAIE
Ps.arc.517-Psyc 1816-YP 265098.1-1-COG1 GVFE1GGQRVLVAMPQVAVLSMPE-YTSVPLVK-PWMLGIANIGRLLPVLVDSFVNLSGTA-----AQMSQRKVMV1DHNVFSGLLVDQVIGIEQFTQDQYRPEAM
Ce.jap.1064-CJA 0077-YP 001980601.1-1-COG1 --GFSLMGSLFVAP1GEVSEMLVEPS-YTHLPQVW-PWVRGVANVGRLLPFLDIAHFFGDRLGG-----SRKQRVLLIETETLYSGMLVDVFGMQHFFMDEYSEEA-GTVADSILPFVITGSYFQG-EQRWLSFRPALL
Ps.den.2356-H681 01870-YP 007655796.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.816-PSPA7 0510-YP 001345905.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7892-PAIR gp3921-REF DMTMUA:PAIR gp3921-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.1913-PAMI8 0410-YP 005973001.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.495-PA14 05340-YP 788584.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7914-U769 02115-REF PRJNA225944:U769 02115-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.479-PA0410-NP 249101.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7891-PAIS gp3921-REF DMTMUA:PAIS gp3921-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.2365-G655 02090-YP 007707267.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7923-T223 02075-REF PRJNA222518:T223 02075-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7724-M0E2 02060-YP 00813077.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.1129-PL05 04081-YP 002438016.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.1955-NCGM2 5788-YP 005983984.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.7936-SCV20265 0427-REF BOR001_SCV20265:SCV20265_0427-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.aer.2035-PADK2 02065-YP 006480410.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPLEAALQFFIHGVFV-R-EQPWLVSFHALAQ
Ps.stu.2049-PSUM300 01670-YP 006522772.1-1-COG1 -----EVGEILHEPR-YTLQPGVK-TWVRGVANVGRLLPIMDLGCGFLGTGLSP-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.stu.2031-A458 01550-YP 006455991.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.stu.1468-PSTAB 3910-YP 004716280.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.stu.1925-PSATA 4101-YP 005940698.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.stu.822-PST 3951-YP 00174416.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.stu.2238-Psest 0299-YP 007238540.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.res.7713-PCAI0 03440-YP 000180681.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.ful.1414-Psefu 0322-YP 004472400.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.men.863-Fmen 0405-YP 001185910.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.men.1382-MDS 0454-YP 004378247.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPVMDLGCGFLGELS-----LRKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.ent.821-PSEEN5053-YP 610469.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.827-PputW619 0474-YP 001747348.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.sp..7879-PVLB 02230-REF CeBiTec:PVLB 02230-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.1467-FPS 4834-YP 004704043.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.mon.7930-X969 23875-REF PRJNA231107:X969 23875-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.2236-B479 24415-YP 007231715.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.mon.7931-X970 23510-REF PRJNA231108:X970 23510-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.869-PputGbl 5040-YP 001671260.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.2013-YSA 04083-YP 006386093.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.429-PP 4990-NP 747092.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.1896-PFUBIRD1 4777-YP 005932537.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.683-Pput 4864-YP 001270163.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.put.2052-TIE 1116-YP 006531765.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.syr.490-PSPTO 5032-NP 794765.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.syr.472-Psyr 0490-YP 233598.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.syr.556-PSPPH 0481-YP 272784.1-1-COG1 --GFRMAGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.flu.1995-PfIA506 5048-YP 006326436.1-1-COG1 --AFRVGNAYVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.poa.2278-H045 19175-YP 007399393.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.flu.1721-PFUIS750-YP 002875240.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.sp..7926-U771 29780-REF PRJNA225946:U771 29780-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.flu.303-Pf101 5306-YP 351034.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.pro.7691-PfICHAO c57800-YP 008003012.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.pro.475-PFL 5825-YP 262883.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.sp..2198-PputUW4 05103-YP 007032098.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.flu.1633-PSF113 5527-YP 005210894.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH
Ps.bra.1384-PSEBR 45308-YP 004356813.1-1-COG1 --GFRMGRLFVAMPGEVSEVLEHPR-YTLQPGVK-SWVKGVANVGRLLPIMDLCAFFGLGPA-----AAGKQRVLLVHEDVDFAGLIVDEVFGMQHFFVDTFSQL-PPVEASIQFFIHGVFV-R-EQPWLVSFHALASH

CheV COG6, COG4, and COG9

LVFRLAGRQFLFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.den.2356-H681 16305-YP 007658669.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.2049-PSUM300 08350-YP 006524096.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.1468-PSTAB 2389-YP 004714759.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.1925-PSATA 2596-YP 005939219.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.2238-Psest 1842-YP 007240018.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.822-PST 2488-YP 001172982.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.stu.2031-A458 13220-YP 006458298.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.ent.821-PSEEN3735-YP 609241.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.7712-PP4 37200-YP 008114757.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.869-PputGbl 1670-YP 001667909.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.2013-YSA 01518-YP 006384715.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.429-PP 2128-NP 744277.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.2052-TIE 0598-YP 00658247.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.1896-PFUBIRD1 3524-YP 005931322.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.683-Pput 3612-YP 001268920.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.1467-PFS 1693-YP 004701146.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.2236-B479 08270-YP 007228509.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.mon.7930-X969 06535-REF PRJNA231107:X969 06535-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.sp..7879-PVLB 07860-REF CeBiTec:PVLB 07860-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.mon.7931-X970 06510-REF PRJNA231108:X970 06510-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.put.827-PputW619 1646-YP 001748520.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE
Ps.syr.490-PSPTO 3524-NP 793304.1-F6-1-COG6 LMFRLGGRQKFAINVKFQVEVQLPK-LTLMQPHR-PMICGVNINLQGTLPVLDLSRAIGMR-----LVP-----DASST11VTEYNRSQAFLVGGVDRIVNWNWEMIPPPSA-GRQHYLTAITKVDKLEVIEDVEKVLAE

