

***Class: Predicted peptidoglycan hydrolase class**

<i>Bacillus anthracis str.</i> CDC 684		
GI ID	Protein	*Class
gi 227812819 ref YP_002812828.1	germination-specific N-acetylmuramoyl-L-alanine amidase	A
gi 227812888 ref YP_002812897.1	invasion protein IagB domain protein	C
gi 227813153 ref YP_002813162.1	hypothetical protein BAMEG_0551	A
gi 227813157 ref YP_002813166.1	prophage LambdaBa02, N-acetylmuramoyl-L-alanine amidase PlyL	A
gi 227813464 ref YP_002813473.1	prophage LambdaBa01, N-acetylmuramoyl-L-alanine amidase, family 2	A
gi 227813532 ref YP_002813541.1	putative N-acetylmuramoyl-L-alanine amidase	A
gi 227813562 ref YP_002813571.1	glycosyl hydrolase family protein	C
gi 227813638 ref YP_002813647.1	hypothetical protein BAMEG_1042	A
gi 227813723 ref YP_002813732.1	putative lysozyme	C
gi 227813783 ref YP_002813792.1	bacillolysin	A
gi 227814330 ref YP_002814339.1	x-prolyl-dipeptidyl aminopeptidase	A
gi 227814382 ref YP_002814391.1	putative glycosyl hydrolase, family 25	A
gi 227814592 ref YP_002814601.1	cell wall hydrolase	A
gi 227814662 ref YP_002814671.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 227814745 ref YP_002814754.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 227815025 ref YP_002815034.1	hypothetical protein BAMEG_2436	A
gi 227815182 ref YP_002815191.1	putative protease	B
gi 227815277 ref YP_002815286.1	peptidase, M23/M37 family	A
gi 227815362 ref YP_002815371.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 227815467 ref YP_002815476.1	transglycosylase	C
gi 227815659 ref YP_002815668.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 227816056 ref YP_002816065.1	putative wall-associated protein	A
gi 227816163 ref YP_002816172.1	putative S-layer protein	C
gi 227816237 ref YP_002816246.1	surface-layer N-acetylmuramoyl-L-alanine amidase	A
gi 227816259 ref YP_002816268.1	hypothetical protein BAMEG_3686	A
gi 227816529 ref YP_002816538.1	neutral protease Npr599	A

gi 227816643 ref YP_002816652.1	putative prophage LambdaBa04, glycosyl hydrolase, family 25	A
gi 227816649 ref YP_002816658.1	hypothetical protein BAMEG_4127	A
gi 227817355 ref YP_002817364.1	peptidase, M42 family	A
gi 227817953 ref YP_002817962.1	putative cell wall endopeptidase, NlpC/P60 family	A
gi 227817995 ref YP_002818004.1	putative cell wall hydrolase, partial	A
gi 227818158 ref YP_002818167.1	cell wall hydrolase	A

<i>Bacillus cereus</i> ATCC 10987		
GI ID	Protein	*Class
gi 42779227 ref NP_976474.1	germination-specific N-acetylmuramoyl-L-alanine amidase	A
gi 42779321 ref NP_976568.1	invasion protein IagB domain protein	C
gi 42779496 ref NP_976743.1	N-acetylmuramoyl-L-alanine amidase domain protein	A
gi 42779745 ref NP_976992.1	neutral protease	A
gi 42780060 ref NP_977307.1	N-acetylmuramoyl-L-alanine amidase, family 3	A
gi 42780148 ref NP_977395.1	S-layer protein, putative	C
gi 42780276 ref NP_977523.1	wall associated protein, putative	A
gi 42780281 ref NP_977528.1	cell wall-associated protein, putative	A
gi 42780349 ref NP_977596.1	wall-associated protein, putative	A
gi 42780694 ref NP_977941.1	N-acetylmuramoyl-L-alanine amidase, family 2	A
gi 42780831 ref NP_978078.1	flagellar hook-associated protein, putative	A
gi 42780854 ref NP_978101.1	transglycosylase, SLT family	C
gi 42780958 ref NP_978205.1	N-acetylmuramoyl-L-alanine amidase, family 3	A
gi 42781022 ref NP_978269.1	conserved hypothetical protein	A
gi 42781106 ref NP_978353.1	NLP/P60 family protein	A
gi 42781139 ref NP_978386.1	protease, putative	B
gi 42781473 ref NP_978720.1	alkaline serine protease, subtilase family	A
gi 42781673 ref NP_978920.1	cell wall hydrolase	A
gi 42781819 ref NP_979066.1	neutral protease	A
gi 42781905 ref NP_979152.1	peptidase, U32 family	A

gi 42781906 ref NP_979153.1	N-acetylmuramoyl-L-alanine amidase	A
gi 42781947 ref NP_979194.1	hydrolase, CocE/NonD family	A
gi 42782600 ref NP_979847.1	conserved hypothetical protein	A
gi 42782677 ref NP_979924.1	glycosyl hydrolase, family 18	C
gi 42782716 ref NP_979963.1	N-acetylmuramoyl-L-alanine amidase, putative	A
gi 42782763 ref NP_980010.1	glycosyl hydrolase, family 25, putative	A
gi 42783215 ref NP_980462.1	5'-nucleotidase family protein	A
gi 42783748 ref NP_980995.1	peptidase, M42 family	A
gi 42784346 ref NP_981593.1	endopeptidase lytE, putative	A
gi 42784398 ref NP_981645.1	enterotoxin	A
gi 42784564 ref NP_981811.1	cell wall hydrolase	A
gi 16077111 ref NP_387924.1	sporulation-specific protease YabG	B

<i>Bacillus subtilis subsp. subtilis</i> str. 168		
GI ID	Protein	*Class
gi 16077221 ref NP_388034.1	germination-specific N-acetylmuramoyl-L-alanine amidase	A
gi 255767073 ref NP_388144.2	alkaline phosphatase D	A
gi 16077339 ref NP_388152.1	lipase EstA	A
gi 16077350 ref NP_388163.1	peptidoglycan L-alanyl-D-glutamate endopeptidase CwlK	B
gi 255767082 ref NP_388186.2	alpha-amylase	A
gi 16077772 ref NP_388586.1	rhamnogalacturonan endolyase YesW	A
gi 16077823 ref NP_388637.1	pectate lyase	A
gi 16077851 ref NP_388665.1	nucleotide phosphoesterase	A
gi 16078222 ref NP_389039.1	murein lytic transglycosylase YjbJ	C
gi 16078311 ref NP_389128.1	N-acetylmuramoyl-L-alanine amidase XlyB	A
gi 255767293 ref NP_389150.2	phage-like element PBSX protein XkdO	C
gi 16078346 ref NP_389164.1	N-acetylmuramoyl-L-alanine amidase XlyA	A
gi 16078534 ref NP_389353.1	bacillolysin	A
gi 16078594 ref NP_389413.1	bacillopeptidase F	A

gi 255767407 ref NP_389623.2	sporulation-specific N-acetylmuramoyl-L-alanine amidase	A
gi 16078877 ref NP_389698.1	arabinoxylan arabinofuranohydrolase	A
gi 16078896 ref NP_389717.1	D-alanyl-D-alanine carboxypeptidase DacC	B
gi 255767473 ref NP_390018.2	transglycosylase YomI	B
gi 16079200 ref NP_390024.1	N-acetylmuramoyl-L-alanine amidase BlyA	A
gi 16079204 ref NP_390028.1	glycosyltransferase SunS	C
gi 255767533 ref NP_390299.2	hypothetical protein BSU24190	A
gi 16079624 ref NP_390448.1	N-acetylmuramoyl-L-alanine amidase CwlH	A
gi 16079643 ref NP_390467.1	N-acetylmuramoyl-L-alanine amidase CwlA	A
gi 255767599 ref NP_390480.2	hypothetical protein BSU26030	C
gi 16079812 ref NP_390636.1	N-acetylmuramoyl-L-alanine amidase YrvJ	A
gi 16080615 ref NP_391442.1	N-acetylmuramoyl-L-alanine amidase LytC	A
gi 16080616 ref NP_391443.1	amidase enhancer	A
gi 16080631 ref NP_391459.1	beta-N-acetylglucosaminidase	C
gi 255767831 ref NP_391802.2	wall-associated protein	A

<i>Bacteroides fragilis</i> 638R		
GI ID	Protein	*Class
gi 375356633 ref YP_005109405.1	putative lysozyme protein found in a conjugation transposase	C
gi 375356722 ref YP_005109494.1	putative exported glutaminase	C
gi 375356725 ref YP_005109497.1	putative TonB dependent receptor outer membrane protein	C
gi 375356759 ref YP_005109531.1	putative TonB-dependent receptor exported protein	A
gi 375356781 ref YP_005109553.1	putative TonB dependent outer membrane exported protein	C
gi 375356919 ref YP_005109691.1	Putative TonB-linked outer membrane protein	A
gi 375356937 ref YP_005109709.1	hypothetical protein BF638R_0567	C
gi 375357001 ref YP_005109773.1	putative surface membrane protein	A
gi 375357003 ref YP_005109775.1	putative TonB dependent outer membrane exported protein	A
gi 375357005 ref YP_005109777.1	putative TonB dependent outer membrane protein	C
gi 375357029 ref YP_005109801.1	hypothetical protein BF638R_0665	A

gi 375357098 ref YP_005109870.1	putative lytic murein transglycosylase	C
gi 375357210 ref YP_005109982.1	hypothetical protein BF638R_0862	C
gi 375357268 ref YP_005110040.1	Putative TonB-dependent outer membrane receptor protein	A
gi 375357293 ref YP_005110065.1	Putative TonB-dependent outer membrane receptor protein	A
gi 375357295 ref YP_005110067.1	Putative TonB-dependent outer membrane receptor protein	A
gi 375357532 ref YP_005110304.1	hypothetical protein BF638R_1208	C
gi 375357644 ref YP_005110416.1	putative outer membrane protein	A
gi 375357817 ref YP_005110589.1	putative hemagglutinin	A
gi 375358018 ref YP_005110790.1	putative outer membrane protein	A
gi 375358024 ref YP_005110796.1	putative TonB-dependent outer membrane receptor protein	A
gi 375358049 ref YP_005110821.1	putative TonB-linked outer membrane protein	C
gi 375358277 ref YP_005111049.1	putative bacteriophage Gp25 protein	C
gi 375358405 ref YP_005111177.1	putative TonB-dependent outer membrane receptor protein	C
gi 375358406 ref YP_005111178.1	hypothetical protein BF638R_2118	C
gi 375358443 ref YP_005111215.1	putative TonB-dependent outer membrane receptor protein	C
gi 375358611 ref YP_005111383.1	hypothetical protein BF638R_2330	A
gi 375358777 ref YP_005111549.1	putative iron transport-related exported protein	C
gi 375358791 ref YP_005111563.1	hypothetical protein BF638R_2515	A
gi 375358815 ref YP_005111587.1	putative N-acetylmuramoyl-L-alanine amidase	A
gi 375359053 ref YP_005111825.1	putative N-acetylmuramoyl-L-alanine amidase	A
gi 375359194 ref YP_005111966.1	hypothetical protein BF638R_2948	A
gi 375359272 ref YP_005112044.1	hypothetical protein BF638R_3031	A
gi 375359284 ref YP_005112056.1	putative exported transglycosylase protein	C
gi 375359410 ref YP_005112182.1	hypothetical protein BF638R_3170	A
gi 375359445 ref YP_005112217.1	hypothetical protein BF638R_3206	C
gi 375359465 ref YP_005112237.1	hypothetical protein BF638R_3226	C
gi 375359605 ref YP_005112377.1	putative cell wall biosynthesis related protein	A
gi 375359621 ref YP_005112393.1	putative peptidoglycan biosynthesis-related protein	C
gi 375359688 ref YP_005112460.1	hypothetical protein BF638R_3466	A

gi 375359845 ref YP_005112617.1	Putative N-acetylmuramoyl-L-alanine amidase	A
gi 375359849 ref YP_005112621.1	hypothetical protein BF638R_3636	A
gi 375359899 ref YP_005112671.1	putative exported N-acetylmuramoyl-L-alanine amidase	A
gi 375359996 ref YP_005112768.1	hypothetical protein BF638R_3787	A
gi 375360294 ref YP_005113066.1	putative outer membrane protein	A
gi 375360300 ref YP_005113072.1	putative TonB-linked outer membrane protein	A
gi 375360411 ref YP_005113183.1	hypothetical protein BF638R_4238	C
gi 375360478 ref YP_005113250.1	hypothetical protein BF638R_4312	A
gi 375360497 ref YP_005113269.1	putative outer membrane protein	A
gi 375360505 ref YP_005113277.1	putative outer membrane protein	A
gi 375360602 ref YP_005113374.1	Putative TonB-linked outer membrane protein	A

<i>Bdellovibrio bacteriovorus</i> HD100		
GI ID	Protein	*Class
gi 42521787 ref NP_967167.1	hypothetical protein Bd0150	C
gi 42521825 ref NP_967205.1	hypothetical protein Bd0193	A
gi 42522132 ref NP_967512.1	murein transglycosylase D	C
gi 42522311 ref NP_967691.1	cell wall surface anchor family protein	A
gi 42522407 ref NP_967787.1	adventurous gliding motility protein U	C
gi 42522455 ref NP_967835.1	cell wall surface anchor family protein	A
gi 42522457 ref NP_967837.1	hypothetical protein Bd0886	A
gi 42522591 ref NP_967971.1	hypothetical protein Bd1032	B
gi 42522716 ref NP_968096.1	hypothetical protein Bd1176	A
gi 42522774 ref NP_968154.1	hypothetical protein Bd1247	A
gi 42522813 ref NP_968193.1	fimbrial protein pilA	C
gi 42522854 ref NP_968234.1	cell wall surface anchor family protein	A
gi 42522963 ref NP_968343.1	cell wall surface anchor family protein	A
gi 42523042 ref NP_968422.1	two-component hybrid sensor and regulator	A
gi 42523112 ref NP_968492.1	molybdopterin oxidoreductase, iron-sulfur binding subunit	A

gi 42523126 ref NP_968506.1	RTX family exoprotein	A
gi 42523208 ref NP_968588.1	cell wall surface anchor family protein	C
gi 42523770 ref NP_969150.1	subtilisin-like serine protease	A
gi 42523879 ref NP_969259.1	cell wall surface anchor family protein	C
gi 42523970 ref NP_969350.1	subtilisin like serine protease	A
gi 42523973 ref NP_969353.1	hypothetical protein Bd2548	A
gi 42524003 ref NP_969383.1	hypothetical protein Bd2581	A
gi 42524110 ref NP_969490.1	protease	A
gi 42524117 ref NP_969497.1	hypothetical protein Bd2699	A
gi 42524155 ref NP_969535.1	hypothetical protein Bd2740	C
gi 42524282 ref NP_969662.1	hemagglutinin/hemolysin-related protein	A
gi 42524640 ref NP_970020.1	cell wall surface anchor family protein	C
gi 42524641 ref NP_970021.1	cell wall surface anchor family protein	A
gi 42524780 ref NP_970160.1	periplasmic binding transport protein	C

<i>Bifidobacterium animalis subsp. lactis</i> ATCC 27673		
GI ID	Protein	*Class
gi 549471592 ref YP_008605299.1	DO serine protease	A
gi 549472233 ref YP_008605940.1	nicotinic acid mononucleotide adenylyltransferase	A
gi 549472416 ref YP_008606123.1	hypothetical protein BLAC_04760	C
gi 549472492 ref YP_008606199.1	N-acetyl transferase	C
gi 549472570 ref YP_008606277.1	DNA gyrase subunit B	A
gi 549472623 ref YP_008606330.1	oligopeptide ABC transporter periplasmic protein	A
gi 549472786 ref YP_008606493.1	fibronectin type III	A
gi 549472820 ref YP_008606527.1	hypothetical protein BLAC_06860	C
gi 549472826 ref YP_008606533.1	dTDP-4-dehydrorhamnose 3,5-epimerase	A
gi 549472864 ref YP_008606571.1	endo-1,4-beta-xylanase	A
gi 549472936 ref YP_008606643.1	fimbrial subunit-like cell surface protein	A

gi 549472963 ref YP_008606670.1	1,4-beta-N-acetylmuramidase	C
gi 549472987 ref YP_008606694.1	xylan esterase	A
gi 549473045 ref YP_008606752.1	hypothetical protein BLAC_08025	C

<i>Bordetella pertussis</i> CS		
GI ID	Protein	*Class
gi 384202602 ref YP_005588341.1	homoserine O-acetyltransferase	A
gi 384202624 ref YP_005588363.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 384202810 ref YP_005588549.1	N-acetylmuramoyl-L-alanine amidase	A
gi 384202862 ref YP_005588601.1	outer membrane heme receptor	C
gi 384202984 ref YP_005588723.1	putative heme receptor	C
gi 384203218 ref YP_005588957.1	putative ferric siderophore receptor	C
gi 384203308 ref YP_005589047.1	outer membrane porin protein	C
gi 384203324 ref YP_005589063.1	TonB-dependent receptor for iron transport	C
gi 384203325 ref YP_005589064.1	TonB-dependent receptor for iron transport	C
gi 384203418 ref YP_005589157.1	membrane-bound lytic murein transglycosylase B	C
gi 384203495 ref YP_005589234.1	D-alanyl-D-alanine carboxypeptidase	B
gi 384203505 ref YP_005589244.1	putative transglycosylase	C
gi 384203574 ref YP_005589313.1	putative ferric siderophore receptor	C
gi 384203743 ref YP_005589482.1	glycosyl hydrolase	C
gi 384203787 ref YP_005589526.1	flagellar rod assembly protein/muramidase FlgJ	C
gi 384204113 ref YP_005589852.1	putative peptidoglycan-binding protein	C
gi 384204127 ref YP_005589866.1	hypothetical protein BPTD_1738	A
gi 384204229 ref YP_005589968.1	hemolysin activator-like protein	C
gi 384204282 ref YP_005590021.1	putative heme storage protein	C
gi 384204297 ref YP_005590036.1	putative ferrisiderophore receptor	C
gi 384204311 ref YP_005590050.1	putative extracellular solute-binding protein	C
gi 384204340 ref YP_005590079.1	putative lipoprotein	C
gi 384204341 ref YP_005590080.1	putative ferric siderophore receptor	A

gi 384204360 ref YP_005590099.1	amidase	C
gi 384204614 ref YP_005590353.1	putative transferase	C
gi 384204679 ref YP_005590418.1	putative binding-protein-dependent transport periplasmic protein	C
gi 384204728 ref YP_005590467.1	putative exported hydrolase	A
gi 384204757 ref YP_005590496.1	potassium-transporting ATPase subunit A	C
gi 384204928 ref YP_005590667.1	phosphoribosylformylglycinamide synthase	C
gi 384205087 ref YP_005590826.1	membrane transport protein	C
gi 384205144 ref YP_005590883.1	outer membrane receptor FepA	A
gi 384205150 ref YP_005590889.1	adhesin	A
gi 384205165 ref YP_005590904.1	putative TonB-dependent receptor	C
gi 384205222 ref YP_005590961.1	histone protein	A
gi 384205244 ref YP_005590983.1	putative D-amino acid dehydrogenase small subunit	C
gi 384205290 ref YP_005591029.1	putative transglycosylase	C
gi 384205352 ref YP_005591091.1	hypothetical protein BPTD_3090	C
gi 384205423 ref YP_005591162.1	putative membrane-bound lytic murein transglycosylase D	C
gi 384205544 ref YP_005591283.1	putative phage lysozyme	C
gi 384205566 ref YP_005591305.1	hypothetical protein BPTD_3336	C
gi 384205666 ref YP_005591405.1	serum resistance protein	A
gi 384205760 ref YP_005591499.1	putative outer membrane protein	C
gi 384205824 ref YP_005591563.1	ferric siderophore receptor	C

<i>Borrelia burgdorferi</i> B31		
GI ID	Protein	*Class
gi 559797711 ref YP_008853941.1	hypothetical protein BB_0531	A
gi 365992380 ref NP_212759.2	N-acetylmuramoyl-L-alanine amidase	A
gi 365992389 ref NP_212800.2	N-acetylmuramoyl-L-alanine amidase domain-containing protein	A

<i>Brucella abortus</i> S19		
GI ID	Protein	*Class

gi 189023309 ref YP_001934077.1	surface antigen	A
gi 189023327 ref YP_001934095.1	SLT domain-containing protein	C
gi 189023374 ref YP_001934142.1	outer membrane protein	C
gi 189023640 ref YP_001934408.1	hypothetical protein BAbS19_I03950	C
gi 189023859 ref YP_001934627.1	transglycosylase	C
gi 189024095 ref YP_001934863.1	Zinc metalloprotease	C
gi 189024098 ref YP_001934866.1	Cell wall hydrolase/autolysin	A
gi 189024153 ref YP_001934921.1	Secretion activator protein	C
gi 189024205 ref YP_001934973.1	Beta-lactamase	A
gi 189024215 ref YP_001934983.1	ATP-dependent RNA helicase, DEAD/DEAH box family	A
gi 189024349 ref YP_001935117.1	alkaline phosphatase	A
gi 189024549 ref YP_001935317.1	hypothetical protein BAbS19_I13480	C
gi 189024567 ref YP_001935335.1	SLT domain-containing protein	C
gi 189024568 ref YP_001935336.1	peptidoglycan binding domain 1	A
gi 189024571 ref YP_001935339.1	glycoside hydrolase family protein	C
gi 189024625 ref YP_001935393.1	SH3 domain-containing protein	C
gi 189024844 ref YP_001935612.1	peptidase family M48	A
gi 189024904 ref YP_001935672.1	lytic murein transglycosylase	C
gi 189025075 ref YP_001935843.1	outer membrane autotransporter	A

<i>Brucella melitensis</i> ATCC 23457		
GI ID	Protein	*Class
gi 225851556 ref YP_002731789.1	family 5 extracellular solute-binding protein	C
gi 225851590 ref YP_002731823.1	surface antigen D15	A
gi 225851609 ref YP_002731842.1	lytic transglycosylase	C
gi 225851658 ref YP_002731891.1	porin	C
gi 225851938 ref YP_002732171.1	hypothetical protein BMEA_A0433	C
gi 225852166 ref YP_002732399.1	lytic transglycosylase	C
gi 225852422 ref YP_002732655.1	peptidase M48 Ste24p	C

gi 225852426 ref YP_002732659.1	N-acetylmuramoyl-L-alanine amidase	A
gi 225852490 ref YP_002732723.1	hypothetical protein BMEA_A1023	C
gi 225852555 ref YP_002732788.1	DEAD/DEAH box helicase	A
gi 225852696 ref YP_002732929.1	alkaline phosphatase	A
gi 225852701 ref YP_002732934.1	lytic transglycosylase	C
gi 225852904 ref YP_002733137.1	outer membrane assembly lipoprotein YfiO	C
gi 225852924 ref YP_002733157.1	lytic transglycosylase	C
gi 225852925 ref YP_002733158.1	N-acetylmuramoyl-L-alanine amidase family 2 protein	A
gi 225852928 ref YP_002733161.1	family 25 glycosyl hydrolase	C
gi 225853091 ref YP_002733324.1	outer membrane protein Omp31	C
gi 225853211 ref YP_002733444.1	peptidase M48 Ste24p	A
gi 225853270 ref YP_002733503.1	lytic murein transglycosylase	C

<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> NCTC 11168-BN148		
GI ID	Protein	*Class
gi 403055418 ref YP_006632823.1	secreted transglycosylase	C
gi 403055594 ref YP_006632999.1	secreted transglycosylase	C
gi 403056004 ref YP_006633409.1	N-acetylmuramoyl-L-alanine amidase	A
gi 403056192 ref YP_006633597.1	flagellar hook-associated protein FlgK	A
gi 403056325 ref YP_006633730.1	hemin uptake system outer membrane receptor	A
gi 403056387 ref YP_006633792.1	lipoprotein	A
gi 403056437 ref YP_006633842.1	flagellar hook protein FlgE	A

<i>Chlamydia psittaci</i> 01DC12		
GI ID	Protein	*Class
gi 410858188 ref YP_006974128.1	polymorphic outer membrane protein	A
gi 410858254 ref YP_006974194.1	polymorphic outer membrane protein	A
gi 410858345 ref YP_006974285.1	probable N-acetylmuramoyl-L-alanine amidase	A

gi 410858667 ref YP_006974607.1	putative exported protein	C
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<i>Clostridium botulinum</i> A str. ATCC 19397		
GI ID	Protein	*Class
gi 153930851 ref YP_001382608.1	spore-cortex-lytic enzyme	C
gi 153933510 ref YP_001382836.1	N-acetylmuramoyl-L-alanine amidase-like protein	A
gi 153932683 ref YP_001382895.1	NlpC/P60 family protein	A
gi 153932011 ref YP_001383128.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153933381 ref YP_001383571.1	glycosyl hydrolase family protein	D
gi 153932511 ref YP_001383745.1	hypothetical protein CLB_1418	C
gi 153931814 ref YP_001383776.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153933650 ref YP_001383784.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153932096 ref YP_001384038.1	hypothetical protein CLB_1716	A
gi 153934162 ref YP_001384040.1	mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase domain-containing protein	C
gi 153933676 ref YP_001384481.1	amidase	A
gi 153931921 ref YP_001384731.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153930828 ref YP_001385112.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153930977 ref YP_001385246.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153933559 ref YP_001385331.1	transglycosylase	C
gi 153931252 ref YP_001385335.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153930900 ref YP_001385432.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153931954 ref YP_001385433.1	N-acetylmuramoyl-L-alanine amidase	A
gi 153933593 ref YP_001385435.1	beta-N-acetylglucosaminidase	C
gi 153933993 ref YP_001385594.1	Slt family transglycosylase	C
gi 153932666 ref YP_001385758.1	N-acetylmuramoyl-L-alanine amidase	A

<i>Clostridium perfringens</i> ATCC 13124		
GI ID	Protein	*Class
gi 110799774 ref YP_694575.1	N-acetylmuramoyl-L-alanine amidase	A

gi 110800117 ref YP_695040.1	N-acetylmuramoyl-L-alanine amidase	A
gi 110799389 ref YP_695058.1	cell wall binding repeat-containing protein/mannosyl-glycoprotein endo-beta-N-acetylglucosamidase domain-containing protein	A
gi 110801433 ref YP_695416.1	KID repeat-containing protein	A
gi 110798593 ref YP_695917.1	beta-galactosidase	A
gi 110799274 ref YP_696005.1	NlpC/P60 family protein	A
gi 110800924 ref YP_696189.1	N-acetylmuramoyl-L-alanine amidase	A
gi 110800912 ref YP_696642.1	1A family penicillin-binding protein	A
gi 110800916 ref YP_696671.1	Slt family transglycosylase	C
gi 110799813 ref YP_697056.1	N-acetylmuramoyl-L-alanine amidase	A
gi 110800108 ref YP_697250.1	serine protease C	A

<i>Clostridium tetani</i> 12124569		
GI ID	Protein	*Class
gi 557604238 ref YP_008772349.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557604349 ref YP_008772460.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557604754 ref YP_008772865.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557605005 ref YP_008773116.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557605127 ref YP_008773238.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557605190 ref YP_008773301.1	spore peptidoglycan hydrolase(N-acetylglucosaminidase)	D
gi 557605213 ref YP_008773324.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557605553 ref YP_008773664.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557605933 ref YP_008774044.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557606206 ref YP_008774317.1	N-acetylmuramoyl-L-alanine amidase	A
gi 557606705 ref YP_008774816.1	germination-specific N-acetylmuramoyl-L-alanineamidase	A

<i>Corynebacterium diphtheriae</i> CDCE 8392		
GI ID	Protein	*Class
gi 376241875 ref YP_005132727.1	N-acetylmuramoyl-L-alanine amidase	A

gi 376242098 ref YP_005132950.1	putative secreted protein	C
gi 376242401 ref YP_005133253.1	resuscitation-promoting factor A	C
gi 376242420 ref YP_005133272.1	putative secreted protein	A
gi 376242512 ref YP_005133364.1	putative secreted protein	C
gi 376242773 ref YP_005133625.1	hypothetical protein CDCE8392_1084	A
gi 376243158 ref YP_005134010.1	histidinol dehydrogenase	A
gi 376243213 ref YP_005134065.1	hypothetical protein CDCE8392_1529	C
gi 376243216 ref YP_005134068.1	ubiquinol-cytochrome C reductase cytochrome C subunit	C
gi 376243943 ref YP_005134795.1	putative hydrolase	A

<i>Coxiella burnetii</i> RSA 331		
GI ID	Protein	*Class
gi 161830043 ref YP_001596320.1	N-acetylmuramoyl-L-alanine amidase/peptidoglycan binding domain-containing protein	A
gi 161830719 ref YP_001596641.1	N-acetylmuramoyl-L-alanine amidase	A
gi 161830681 ref YP_001596697.1	phage lysozyme	C
gi 161830665 ref YP_001597802.1	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	B

<i>Deinococcus radiodurans</i> R1		
GI ID	Protein	*Class
gi 15805048 ref NP_293732.1	metal-dependent hydrolase	A
gi 15805161 ref NP_293847.1	hypothetical protein DR_0121	C
gi 15805407 ref NP_294102.1	outer membrane protein	C
gi 15805410 ref NP_294106.1	S-layer-like array-like protein	C
gi 15805432 ref NP_294128.1	alpha-dextran endo-1,6-alpha-glucosidase	C
gi 15805588 ref NP_294284.1	maltose ABC transporter periplasmic maltose-binding protein	C
gi 15805734 ref NP_294430.1	hypothetical protein DR_0707	C
gi 15805735 ref NP_294431.1	hypothetical protein DR_0708	C
gi 15805961 ref NP_294661.1	TPR repeat-containing protein	C
gi 15806250 ref NP_294955.1	hypothetical protein DR_1231	A

gi 15806308 ref NP_295014.1	extracellular solute-binding protein	A
gi 15806404 ref NP_295110.1	N-acetylmuramoyl-L-alanine amidase	A
gi 15806455 ref NP_295161.1	ABC transporter periplasmic substrate-binding protein	C
gi 15806503 ref NP_295214.1	carboxyl-terminal protease	C
gi 15806631 ref NP_295348.1	amidase	A
gi 15806637 ref NP_295355.1	N-acetylmuramoyl-L-alanine amidase	A
gi 15806891 ref NP_295614.1	TPR repeat-containing protein	C
gi 15806953 ref NP_295678.1	extracellular solute-binding protein	C
gi 15807248 ref NP_295978.1	erythromycin esterase	C
gi 15807262 ref NP_295992.1	hypothetical protein DR_2271	C
gi 15807301 ref NP_296031.1	hypothetical protein DR_2310	C
gi 15807384 ref NP_296115.1	N-acetylmuramoyl-L-alanine amidase	A
gi 15807493 ref NP_296228.1	hexagonally packed intermediate-layer surface protein	A
gi 15807551 ref NP_296287.1	N-acetylmuramoyl-L-alanine amidase-like protein	A
gi 15807560 ref NP_296297.1	S-layer protein	A
gi 15807606 ref NP_296345.1	carboxylesterase, type B	C

<i>Ehrlichia canis</i> str. Jake		
GI ID	Protein	*Class
gi 73667469 ref YP_303485.1	methionine aminopeptidase	A

<i>Enterobacter cloacae</i> subsp. <i>cloacae</i> ATCC 13047		
GI ID	Protein	*Class
gi 296100391 ref YP_003610537.1	maltose-6'-phosphate glucosidase	A
gi 296100417 ref YP_003610563.1	putative maltoporin	C
gi 296100567 ref YP_003610713.1	hypothetical protein ECL_00196	C
gi 296100595 ref YP_003610741.1	putative lipase	C
gi 296100751 ref YP_003610897.1	Putative RND efflux system, outer membrane lipoprotein	C
gi 296100783 ref YP_003610929.1	pilus biogenesis protein PilL	A

gi 296100791 ref YP_003610937.1	PilT protein	C
gi 296100798 ref YP_003610944.1	hypothetical protein ECL_00429	C
gi 296100936 ref YP_003611082.1	N-acetylmuramoyl-l-alanine amidase II	A
gi 296101055 ref YP_003611201.1	putative transposase	C
gi 296101172 ref YP_003611318.1	lytic murein transglycosylase	C
gi 296101272 ref YP_003611418.1	anhydro-N-acetylmuramyl-tripeptide amidase	A
gi 296101287 ref YP_003611433.1	Phage-related lysozyme (muraminidase)	C
gi 296101306 ref YP_003611452.1	fimbrial usher protein	A
gi 296101376 ref YP_003611522.1	membrane-bound lytic murein transglycosylase D	C
gi 296101383 ref YP_003611529.1	hypothetical protein ECL_01017	A
gi 296101404 ref YP_003611550.1	outer membrane efflux protein	C
gi 296101493 ref YP_003611639.1	hypothetical protein ECL_01129	A
gi 296101683 ref YP_003611829.1	phage lysozyme	C
gi 296101878 ref YP_003612024.1	L,D-carboxypeptidase A	B
gi 296101879 ref YP_003612025.1	lytic transglycosylase, catalytic	C
gi 296101882 ref YP_003612028.1	TonB-dependent siderophore receptor	C
gi 296102071 ref YP_003612217.1	gp16	C
gi 296102135 ref YP_003612281.1	putative extracellular lipase	A
gi 296102159 ref YP_003612305.1	murein peptide amidase A	B
gi 296102160 ref YP_003612306.1	putative transport periplasmic protein	C
gi 296102224 ref YP_003612370.1	TonB-dependent siderophore receptor	C
gi 296102430 ref YP_003612576.1	outer membrane transport protein, type I secretion	C
gi 296102726 ref YP_003612872.1	outer membrane usher protein LpfC	A
gi 296102769 ref YP_003612915.1	hypothetical protein ECL_02423	C
gi 296102818 ref YP_003612964.1	MltA-interacting MipA family protein	C
gi 296102880 ref YP_003613026.1	ferric-rhodotorulic acid outer membrane transporter	C
gi 296102902 ref YP_003613048.1	flagellar hook-associated protein FlgK	C
gi 296102903 ref YP_003613049.1	flagellar rod assembly protein/muramidase FlgJ	C
gi 296103072 ref YP_003613218.1	hypothetical protein ECL_02728	C

gi 296103130 ref YP_003613276.1	hypothetical protein ECL_02786	C
gi 296103131 ref YP_003613277.1	glycoside hydrolase family 18 protein	A
gi 296103148 ref YP_003613294.1	N-acetylmuramoyl-L-alanine amidase	A
gi 296103230 ref YP_003613376.1	peptide/nickel transport system substrate-binding protein	C
gi 296103255 ref YP_003613401.1	outer membrane protein X	C
gi 296103346 ref YP_003613492.1	alpha-ketoglutarate decarboxylase	A
gi 296103432 ref YP_003613578.1	hypothetical protein ECL_03093	A
gi 296103510 ref YP_003613656.1	TonB-dependent siderophore receptor	A
gi 296103546 ref YP_003613692.1	phage lysozyme	C
gi 296103737 ref YP_003613883.1	fimbrillin MatB	C
gi 296103782 ref YP_003613928.1	D-alanyl-D-alanine endopeptidase	B
gi 296103833 ref YP_003613979.1	putative peptide/nickel transport system substrate-binding protein	C
gi 296103909 ref YP_003614055.1	phage lysozyme	C
gi 296104014 ref YP_003614160.1	penicillin-insensitive murein endopeptidase	B
gi 296104095 ref YP_003614241.1	N-acetylmuramoyl-L-alanine amidase I	A
gi 296104112 ref YP_003614258.1	putative lipoprotein	C
gi 296104232 ref YP_003614378.1	putative transglycosylase	C
gi 296104375 ref YP_003614521.1	murein hydrolase B	C
gi 296104477 ref YP_003614623.1	N-acetylmuramoyl-L-alanine amidase	A
gi 296104524 ref YP_003614670.1	putative outer membrane protein A	C
gi 296104625 ref YP_003614771.1	murein transglycosylase C	C
gi 296104689 ref YP_003614835.1	iron complex outermembrane receptor protein	A
gi 296104696 ref YP_003614842.1	hypothetical protein ECL_04364	C
gi 296104726 ref YP_003614872.1	serine protease	C
gi 296104744 ref YP_003614890.1	Phage baseplate assembly protein	C
gi 296104751 ref YP_003614897.1	phage lysozyme	C
gi 296104893 ref YP_003615039.1	D-alanyl-D-alanine carboxypeptidase	B
gi 296105248 ref YP_003615394.1	hypothetical protein ECL_04921	C
gi 296105299 ref YP_003615445.1	phospholipase A	C

gi 296105346 ref YP_003615492.1	vitamin B12/cobalamin outer membrane transporter	A
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<i>Enterococcus faecalis</i> 62		
GI ID	Protein	*Class
gi 384516875 ref YP_005704180.1	hypothetical protein EF62_0150	A
gi 384516984 ref YP_005704289.1	hypothetical protein EF62_0259	A
gi 384517031 ref YP_005704336.1	hypothetical protein EF62_0306	A
gi 384517244 ref YP_005704549.1	nlpC/P60 family protein	B
gi 384518077 ref YP_005705382.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 384518197 ref YP_005705502.1	Endocarditis and Biofilm-Associated Pilus subunitA	A
gi 384518333 ref YP_005705638.1	extracellular solute-binding family protein	C
gi 384518390 ref YP_005705695.1	N-acetylmuramoyl-L-alanine amidase family protein	A
gi 384518613 ref YP_005705918.1	1,4-beta-N-acetylmuramoylhydrolase	C
gi 384518821 ref YP_005706126.1	Ig-like domain (group 4) family protein	A
gi 384518887 ref YP_005706192.1	NlpC/P60 family protein	B
gi 384519110 ref YP_005706415.1	glycosyl hydrolases family 25 family protein	C
gi 384519152 ref YP_005706457.1	extracellular solute-binding family protein	C
gi 384519185 ref YP_005706490.1	internalin like repeat domain protein	C
gi 384519192 ref YP_005706497.1	mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase family protein	C
gi 384519428 ref YP_005706733.1	mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase autolysin family protein	A

<i>Escherichia coli</i> str. K-12 substr. DH10B		
GI ID	Protein	*Class
gi 170079747 ref YP_001729067.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 170079842 ref YP_001729162.1	membrane-bound lytic murein transglycosylase D	C
gi 170080136 ref YP_001729456.1	DLP12 prophage; lysozyme	C
gi 170080137 ref YP_001729457.1	DLP12 prophage; murein endopeptidase	B
gi 170080237 ref YP_001729557.1	DLP12 prophage; lysozyme	C
gi 170080238 ref YP_001729558.1	DLP12 prophage; murein endopeptidase	B

gi 170080464 ref YP_001729784.1	catechololate siderophore receptor Fiu	A
gi 170080473 ref YP_001729793.1	outer membrane protein X	C
gi 170080489 ref YP_001729809.1	periplasmic solute-binding component of a glutathione transporter	C
gi 170080526 ref YP_001729846.1	amidase	A
gi 170080583 ref YP_001729903.1	hypothetical protein ECDH10B_0995	C
gi 170080681 ref YP_001730001.1	outer membrane protein PgaA	C
gi 170080732 ref YP_001730052.1	flagellar rod assembly protein/muramidase FlgJ	C
gi 170080733 ref YP_001730053.1	flagellar hook-associated protein FlgK	C
gi 170080806 ref YP_001730126.1	hypothetical protein ECDH10B_1231	C
gi 170080820 ref YP_001730140.1	L,D-carboxypeptidase A	B
gi 170080830 ref YP_001730150.1	adhesin	A
gi 170080903 ref YP_001730223.1	lysozyme-like protein	C
gi 170080973 ref YP_001730293.1	antibiotic ABC transporter periplasmic-binding protein	C
gi 170081004 ref YP_001730324.1	murein peptide amidase A	A
gi 170081008 ref YP_001730328.1	L-ala-gamma-D-glutamyl-meso-DAP ABC transporter periplasmic substrate-binding protein	C
gi 170081049 ref YP_001730369.1	Rac prophage; tail fiber protein	A
gi 170081166 ref YP_001730486.1	porin protein	A
gi 170081177 ref YP_001730497.1	hypothetical protein ECDH10B_1640	A
gi 170081178 ref YP_001730498.1	putative lipoprotein	A
gi 170081222 ref YP_001730542.1	Qin prophage; lysozyme	C
gi 170081379 ref YP_001730699.1	hypothetical protein ECDH10B_1860	C
gi 170081629 ref YP_001730949.1	CP4-44 prophage; antigen 43 (Ag43) phase-variable biofilm formation autotransporter	A
gi 170081727 ref YP_001731047.1	hydrolase	C
gi 170081733 ref YP_001731053.1	outer membrane protein	A
gi 170081757 ref YP_001731077.1	D-alanyl-D-alanine endopeptidase	B
gi 170081835 ref YP_001731155.1	outer membrane porin protein C	C
gi 170081851 ref YP_001731171.1	adhesin	A
gi 170081943 ref YP_001731263.1	hypothetical protein ECDH10B_2489	B
gi 170081944 ref YP_001731264.1	penicillin-insensitive murein endopeptidase	B

gi 170081960 ref YP_001731280.1	long-chain fatty acid outer membrane transporter	C
gi 170082044 ref YP_001731364.1	N-acetylmuramoyl-l-alanine amidase I	A
gi 170082104 ref YP_001731424.1	peptidase	C
gi 170082168 ref YP_001731488.1	putative transglycosylase	C
gi 170082252 ref YP_001731572.1	LysM domain/BON superfamily protein	C
gi 170082277 ref YP_001731597.1	murein hydrolase B	C
gi 170082385 ref YP_001731705.1	N-acetylmuramoyl-L-alanine amidase	A
gi 170082515 ref YP_001731835.1	murein transglycosylase C	C
gi 170082580 ref YP_001731900.1	hypothetical protein ECDH10B_3211	C
gi 170082681 ref YP_001732001.1	outer membrane protein	A
gi 170082717 ref YP_001732037.1	D-alanyl-D-alanine carboxypeptidase	B
gi 170082742 ref YP_001732062.1	monofunctional biosynthetic peptidoglycan transglycosylase	C
gi 170082844 ref YP_001732164.1	general secretory pathway component, cryptic	A
gi 170083040 ref YP_001732360.1	cellulose synthase subunit BcsC	C
gi 170083079 ref YP_001732399.1	hypothetical protein ECDH10B_3751	C
gi 170083435 ref YP_001732755.1	vitamin B12/cobalamin outer membrane transporter	A
gi 170083472 ref YP_001732792.1	isocitrate lyase	A
gi 170083600 ref YP_001732920.1	beta-lactamase	B
gi 170083615 ref YP_001732935.1	N-acetylmuramoyl-l-alanine amidase II	A
gi 170083746 ref YP_001733066.1	N-acetylnuraminic acid outer membrane channel protein	C
gi 170083778 ref YP_001733098.1	lytic murein transglycosylase	C

<i>Eubacterium rectale</i> ATCC 33656		
GI ID	Protein	*Class
gi 238922455 ref YP_002935968.1	germination-specific N-acetylmuramoyl-L-alanine amidase	A
gi 238922889 ref YP_002936402.1	galactose/glucose-binding lipoprotein	A
gi 238922938 ref YP_002936451.1	hypothetical protein EUBREC_0526	A
gi 238923299 ref YP_002936814.1	cell surface protein	C
gi 238923300 ref YP_002936815.1	N-acetylmuramoyl-L-alanine amidase	A

gi 238923349 ref YP_002936864.1	N-acetylmuramoyl-L-alanine amidase domain protein	A
gi 238923461 ref YP_002936977.1	periplasmic alpha-amylase precursor	C
gi 238923496 ref YP_002937012.1	hypothetical protein EUBREC_1116	A
gi 238923511 ref YP_002937027.1	hypothetical protein in ImpB/MucB/SamB family of UV repair proteins	A
gi 238923828 ref YP_002937344.1	soluble lytic murein transglycosylase precursor	C
gi 238924227 ref YP_002937743.1	hypothetical protein EUBREC_1865	A
gi 238924298 ref YP_002937814.1	N-acetylmuramoyl-L-alanine amidase, C-terminus, partial	A
gi 238924347 ref YP_002937863.1	sporulation protein SpoIID	A
gi 238924438 ref YP_002937954.1	glycoside hydrolase family 25	C
gi 238924445 ref YP_002937961.1	hypothetical protein EUBREC_2086	C
gi 238924531 ref YP_002938047.1	hypothetical protein EUBREC_2173	A
gi 238924660 ref YP_002938176.1	mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase	C
gi 238924728 ref YP_002938244.1	N-acetylmuramoyl-L-alanine amidase	A
gi 238924984 ref YP_002938500.1	N-acetylmuramoyl-L-alanine amidase	A
gi 238924985 ref YP_002938501.1	glycoside hydrolase family 25	A
gi 238925098 ref YP_002938615.1	cysteine proteinase	A
gi 238925103 ref YP_002938620.1	cellulose 1,4-beta-cellobiosidase	A
gi 238925600 ref YP_002939117.1	flagellar capping protein	C
gi 238925642 ref YP_002939159.1	glycoside hydrolase family 25	C
gi 238926005 ref YP_002939523.1	hypothetical protein EUBREC_3663	A
<i>Francisella tularensis</i> subsp. tularensis FSC198		
GI ID	Protein	*Class
gi 110669802 ref YP_666359.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 110670020 ref YP_666577.1	soluble lytic murein transglycosylase	C
gi 110670080 ref YP_666637.1	organic solvent tolerance protein	C
gi 110670142 ref YP_666699.1	lipoprotein	C
gi 110670305 ref YP_666862.1	chitinase family 18 protein	C
gi 110670597 ref YP_667154.1	D-alanyl-D-alanine carboxypeptidase	B

gi 110670598 ref YP_667155.1	lipoprotein	C
gi 110670844 ref YP_667401.1	inosine-5-monophosphate dehydrogenase	A

<i>Haemophilus influenzae</i> R2846		
GI ID	Protein	*Class
gi 386265241 ref YP_005828733.1	Putative penicillin-binding protein 7	B
gi 386265303 ref YP_005828795.1	N-acetyl-anhydromuramyl-L-alanine amidase AmpD	A
gi 386265372 ref YP_005828864.1	Adhesion and penetration protein precursor	A
gi 386265385 ref YP_005828877.1	membrane-bound lytic murein transglycosylase F	C
gi 386265444 ref YP_005828936.1	Putative permease YcfA	B
gi 386265445 ref YP_005828937.1	murein DD-endopeptidase, penicillin-insensitive	B
gi 386265564 ref YP_005829056.1	N-acetylmuramoyl-L-alanine amidase	A
gi 386265598 ref YP_005829090.1	Penicillin-binding protein 2	A
gi 386265714 ref YP_005829206.1	Lipoprotein LppC	C
gi 386265913 ref YP_005829405.1	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	B
gi 386266274 ref YP_005829766.1	Immunoglobulin A1 protease	A
gi 386266507 ref YP_005829999.1	Membrane-bound lytic murein transglycosylase C	C
gi 386266561 ref YP_005830053.1	Outer membrane antigenic lipoprotein B	C
gi 386266608 ref YP_005830100.1	Hemoglobin and hemoglobin-haptoglobin binding protein B	A

<i>Helicobacter pylori</i> 52		
GI ID	Protein	*Class
gi 384887064 ref YP_005761575.1	outer membrane protein HopD	C
gi 384887254 ref YP_005761765.1	outer membrane protein (omp29)	C
gi 384887315 ref YP_005761826.1	putative vacuolating cytotoxin (VacA)-like protein	A
gi 384887360 ref YP_005761871.1	hypothetical protein HPKB_0346	C
gi 384887581 ref YP_005762092.1	N-acetylmuramoyl-L-alanine amidase	A
gi 384887698 ref YP_005762209.1	transglycosylase	C
gi 384887732 ref YP_005762243.1	putative vacuolating cytotoxin (VacA)	A

gi 384888054 ref YP_005762565.1	outer membrane protein HopI	C
gi 384888132 ref YP_005762643.1	outer membrane protein - adhesin	A
gi 384888357 ref YP_005762868.1	iron-regulated outer membrane protein	A
gi 384888380 ref YP_005762891.1	TonB-dependent siderophore receptor	A
gi 384888435 ref YP_005762946.1	lytic transglycosylase, catalytic	C

<i>Klebsiella pneumoniae</i> subsp. pneumoniae 1084		
GI ID	Protein	*Class
gi 402778318 ref YP_006633864.1	maltose-6'-phosphate glucosidase	A
gi 402778476 ref YP_006634022.1	BAX protein	C
gi 402778520 ref YP_006634066.1	cellulose synthase operon protein C	C
gi 402778809 ref YP_006634355.1	D-alanyl-D-alanine carboxypeptidase	B
gi 402778872 ref YP_006634418.1	Pirin-like protein YhaK	A
gi 402778960 ref YP_006634506.1	type I secretion outer membrane protein, TolC	C
gi 402779007 ref YP_006634553.1	membrane-bound lytic murein transglycosylase C	C
gi 402779101 ref YP_006634647.1	type 1 fimbriae anchoring protein FimD	A
gi 402779170 ref YP_006634716.1	N-acetylmuramoyl-L-alanine amidase	A
gi 402779292 ref YP_006634838.1	TonB-dependent hemin , ferrichrome receptor	C
gi 402779344 ref YP_006634890.1	membrane-bound lytic murein transglycosylase B	C
gi 402779365 ref YP_006634911.1	L-proline glycine betaine binding ABC transporter protein ProX	C
gi 402779394 ref YP_006634940.1	type 1 fimbriae anchoring protein FimD	C
gi 402779493 ref YP_006635039.1	Slt family transglycosylase	C
gi 402779563 ref YP_006635109.1	outer membrane protein NlpB	C
gi 402779596 ref YP_006635142.1	N-acetylmuramoyl-L-alanine amidase	A
gi 402779642 ref YP_006635188.1	long-chain fatty acid transport protein	C
gi 402779649 ref YP_006635195.1	murein endopeptidase	B
gi 402779734 ref YP_006635280.1	outer membrane protein C	C
gi 402779759 ref YP_006635305.1	ABC transporter substrate-binding protein	C
gi 402779798 ref YP_006635344.1	murein-DD-endopeptidase	B

gi 402780059 ref YP_006635605.1	outer membrane protein N	C
gi 402780096 ref YP_006635642.1	alpha,alpha-trehalose-phosphate synthase	C
gi 402780185 ref YP_006635731.1	muramoyltetrapeptide carboxypeptidase	B
gi 402780242 ref YP_006635788.1	hypothetical protein A79E_1987	C
gi 402780310 ref YP_006635856.1	outer membrane protein	C
gi 402780392 ref YP_006635938.1	ferrichrome-iron receptor	A
gi 402780409 ref YP_006635955.1	ABC transporter, periplasmic iron binding protein	C
gi 402780590 ref YP_006636136.1	tonB-dependent receptor yncD	C
gi 402781035 ref YP_006636581.1	outer membrane protein N	C
gi 402781101 ref YP_006636647.1	hypothetical protein A79E_2852	C
gi 402781117 ref YP_006636663.1	Periplasmic Murein Peptide-Binding Protein MppA	C
gi 402781118 ref YP_006636664.1	Gamma-D-Glutamyl-meso-Diaminopimelate Amidase	B
gi 402781185 ref YP_006636731.1	ferrichrome-iron receptor	A
gi 402781299 ref YP_006636845.1	phage tail fiber protein	C
gi 402781476 ref YP_006637022.1	Phytanoyl-CoA dioxygenase	A
gi 402781586 ref YP_006637132.1	N-acetylmuramoyl-L-alanine amidase	A
gi 402781623 ref YP_006637169.1	dipeptide-binding ABC transporter, periplasmic substrate-binding component	C
gi 402781644 ref YP_006637190.1	Attachment invasion locus protein	C
gi 402781806 ref YP_006637352.1	Penicillin-binding protein 2 (PBP-2)	A
gi 402781907 ref YP_006637453.1	GntR family transcriptional regulator domain / Aspartate aminotransferase	A
gi 402782080 ref YP_006637626.1	maltoporin	C
gi 402782294 ref YP_006637840.1	membrane-bound lytic murein transglycosylase D	C
gi 402782409 ref YP_006637955.1	N-acetylmuramoyl-L-alanine amidase	A
gi 402782523 ref YP_006638069.1	lytic murein transglycosylase	C
gi 402782681 ref YP_006638227.1	lytic murein transglycosylase	C
gi 402782837 ref YP_006638383.1	N-acetylmuramoyl-L-alanine amidase	A
gi 402782951 ref YP_006638497.1	Slt family transglycosylase	C
gi 402783183 ref YP_006638729.1	formate dehydrogenase O subunit alpha	A

<i>Lactococcus lactis</i> subsp. <i>lactis</i> KLDS 4.0325		
GI ID	Protein	*Class
gi 554464938 ref YP_008701786.1	hypothetical protein P620_01430	A
gi 554463348 ref YP_008701923.1	ABC transporter substrate-binding protein	C
gi 554463473 ref YP_008702091.1	penicillin-binding protein 1A	C
gi 554465057 ref YP_008702289.1	hypothetical protein P620_04160	A
gi 554465066 ref YP_008702374.1	hypothetical protein P620_04600	A
gi 554465140 ref YP_008702577.1	hypothetical protein P620_05650	A
gi 554465254 ref YP_008702802.1	hypothetical protein P620_06795	C
gi 554465335 ref YP_008702995.1	N-acetyl-muramidase	C
gi 554465384 ref YP_008703125.1	cell-wall-anchored protein SasA (LPXTG motif)	C
gi 554465389 ref YP_008703158.1	hypothetical protein P620_08610	A
gi 554464258 ref YP_008703299.1	transglycosylase	C
gi 554465505 ref YP_008703562.1	hypothetical protein P620_10695	A
gi 554465507 ref YP_008703564.1	hypothetical protein P620_10705	D
gi 554464492 ref YP_008703639.1	N-acetylmuramoyl-L-alanine amidase	A
gi 554465584 ref YP_008703859.1	hypothetical protein P620_12275	A

<i>Leptospira interrogans</i> serovar Lai str. 56601		
GI ID	Protein	*Class
gi 24213159 ref NP_710640.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294827714 ref NP_710890.2	hypothetical protein LA_0709	A
gi 24213491 ref NP_710972.1	transglycosylase	C
gi 24214269 ref NP_711750.1	hypothetical protein LA_1569	A
gi 24214900 ref NP_712381.1	amidase	A
gi 24216032 ref NP_713513.1	cytoplasmic membrane protein	A
gi 294828308 ref NP_713576.2	hypothetical protein LA_3396	A
gi 24216133 ref NP_713614.1	N-acetylmuramoyl-L-alanine amidase	A
gi 24216424 ref NP_713905.1	cytoplasmic membrane protein	A

gi 24216569 ref NP_714050.1	hypothetical protein LA_3870	A
gi 24216971 ref NP_714452.1	hypothetical protein LA_4272	C

<i>Listeria monocytogenes</i> ATCC 19117		
GI ID	Protein	*Class
gi 405748350 ref YP_006671816.1	cell wall surface anchor family protein	A
gi 405748480 ref YP_006671946.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405748481 ref YP_006671947.1	Ser/Thr protein phosphatase family protein	A
gi 405748794 ref YP_006672260.1	WapA family wall-associated protein	A
gi 405748840 ref YP_006672306.1	hypothetical protein LMOATCC19117_0505	A
gi 405748993 ref YP_006672459.1	cell wall surface anchor family protein	C
gi 405749088 ref YP_006672554.1	transglycosylase	C
gi 405749430 ref YP_006672896.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405749549 ref YP_006673015.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405749550 ref YP_006673016.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405749865 ref YP_006673331.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405750016 ref YP_006673482.1	cell wall surface anchor family protein	A
gi 405750297 ref YP_006673763.1	cell wall surface anchor family protein	A
gi 405750563 ref YP_006674029.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405750788 ref YP_006674254.1	glycosyl hydrolase family protein	A
gi 405750902 ref YP_006674368.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405750936 ref YP_006674402.1	N-acetylmuramoyl-L-alanine amidase	A
gi 405751035 ref YP_006674501.1	N-acetylmuramoyl-L-alanine amidase	A

<i>Mycobacterium tuberculosis</i> H37Rv		
GI ID	Protein	*Class
gi 397671843 ref YP_006513377.1	oxidoreductase	A
gi 397672251 ref YP_006513786.1	prolyl oligopeptidase	A
gi 397672479 ref YP_006514014.1	lipoprotein LpqP	A

gi 397672489 ref YP_006514024.1	transcriptional regulator TetR-family	C
gi 397672548 ref YP_006514083.1	hypothetical protein RVBD_0739	C
gi 397672755 ref YP_006514290.1	periplasmic phosphate-binding lipoprotein PstS1	C
gi 397672848 ref YP_006514383.1	lipoprotein LpqU	C
gi 397673070 ref YP_006514605.1	membrane protein	C
gi 397673091 ref YP_006514626.1	hypothetical protein RVBD_1251c	A
gi 397673128 ref YP_006514663.1	mycolyltransferase II	A
gi 397673555 ref YP_006515090.1	outer membrane protein MctB	A
gi 397673613 ref YP_006515148.1	fatty-acid-CoA ligase FadD1	C
gi 397673617 ref YP_006515152.1	hypothetical protein RVBD_1754c	C
gi 397673701 ref YP_006515236.1	hypothetical protein RVBD_1836c	A
gi 397673817 ref YP_006515352.1	hypothetical protein RVBD_1949c	C
gi 397673890 ref YP_006515425.1	transposase	C
gi 397674020 ref YP_006515555.1	lipoprotein LppL	A
gi 397674216 ref YP_006515751.1	periplasmic sugar-binding lipoprotein UspC	C
gi 397674448 ref YP_006515983.1	hypothetical protein RVBD_2542	A
gi 397674493 ref YP_006516028.1	protein-export membrane protein SecD	C
gi 397674892 ref YP_006516427.1	exported or membrane protein	A
gi 397674983 ref YP_006516518.1	short-chain alcohol dehydrogenase/reductase	A
gi 397675382 ref YP_006516917.1	PPE family protein PPE59	C
gi 397675391 ref YP_006516926.1	transmembrane protein	C
gi 397675493 ref YP_006517028.1	PPE family protein PPE63	C
gi 397675548 ref YP_006517083.1	lipoprotein LpqF	A
gi 397675549 ref YP_006517084.1	hypothetical protein RVBD_3594	A
gi 397675581 ref YP_006517116.1	d-alanyl-d-alanine carboxypeptidase	B
gi 397675674 ref YP_006517209.1	N-acetylmuramoyl-L-alanine amidase	A
gi 397675772 ref YP_006517308.1	hypothetical protein RVBD_3811	A
gi 397675860 ref YP_006517396.1	hypothetical protein RVBD_3896c	C
gi 397675880 ref YP_006517416.1	N-acetylmuramoyl-L-alanine amidase	A

<i>Myxococcus xanthus</i> DK 1622		
GI ID	Protein	*Class
gi 108757004 ref YP_628299.1	PHB depolymerase esterase	A
gi 108757154 ref YP_628397.1	transglycosylase SLT domain-containing protein	C
gi 108762740 ref YP_628492.1	transglycosylase SLT domain-containing protein	C
gi 108757512 ref YP_628501.1	hypothetical protein MXAN_0219	C
gi 108762055 ref YP_628619.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108760456 ref YP_628832.1	LysM domain-containing protein	A
gi 108759659 ref YP_629243.1	hypothetical protein MXAN_0982	A
gi 108758072 ref YP_629248.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108762289 ref YP_629281.1	hypothetical protein MXAN_1020	A
gi 108758609 ref YP_629452.1	hypothetical protein MXAN_1193	C
gi 108757613 ref YP_629924.1	hypothetical protein MXAN_1672	C
gi 108761612 ref YP_629983.1	cysteine-rich repeat-containing protein	A
gi 108758052 ref YP_630238.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108761197 ref YP_630373.1	beta-lactamase	C
gi 108758669 ref YP_630480.1	hypothetical protein MXAN_2259	C
gi 108759519 ref YP_630535.1	RIO1 family protein	A
gi 108757922 ref YP_631031.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108758904 ref YP_631087.1	hypothetical protein MXAN_2876	A
gi 108758326 ref YP_631147.1	hypothetical protein MXAN_2937	A
gi 108762908 ref YP_631284.1	transglycosylase SLT domain-containing protein	C
gi 108758082 ref YP_631332.1	S9A family peptidase	A
gi 108758656 ref YP_631560.1	transglycosylase SLT domain-containing protein	C
gi 108759376 ref YP_631754.1	M36 family peptidase	A
gi 108763549 ref YP_631756.1	amidase	C
gi 108761464 ref YP_631843.1	hypothetical protein MXAN_3656	A
gi 108759818 ref YP_631863.1	hypothetical protein MXAN_3676	C

gi 108757251 ref YP_632066.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108762638 ref YP_632179.1	N-acetylmuramoyl-L-alanine amidase	A
gi 108763880 ref YP_632213.1	transglycosylase SLT domain-containing protein	C
gi 108759662 ref YP_632309.1	hypothetical protein MXAN_4134	C
gi 108759224 ref YP_632450.1	hypothetical protein MXAN_4275	C
gi 108757180 ref YP_632494.1	metallo-beta-lactamase	A
gi 108762752 ref YP_632562.1	catalase KatB	A
gi 108761453 ref YP_632794.1	transglycosylase SLT domain-containing protein	C
gi 108761241 ref YP_632826.1	pilus biogenesis protein	C
gi 108762121 ref YP_632998.1	endoglucanase	C
gi 108761653 ref YP_633010.1	hypothetical protein MXAN_4849, partial	A
gi 108758494 ref YP_633421.1	lysyl endopeptidase domain-containing protein	C
gi 108762709 ref YP_633476.1	phytase	C
gi 108762400 ref YP_633530.1	lipoprotein	A
gi 108759536 ref YP_633538.1	hypothetical protein MXAN_5391	A
gi 108758096 ref YP_633597.1	M36 family peptidase	C
gi 108761320 ref YP_633974.1	Ig-like domain-containing protein	A
gi 108758420 ref YP_634267.1	Ig-like domain/kelch domain-containing protein	C
gi 108761497 ref YP_634374.1	kelch motif-containing protein	A
gi 108758856 ref YP_634494.1	transglycosylase SLT domain-containing protein	C
gi 108757507 ref YP_634574.1	beta-lactamase	C
gi 108761912 ref YP_634796.1	hypothetical protein MXAN_6679	A
gi 108761913 ref YP_634817.1	hypothetical protein MXAN_6700	C
gi 108759598 ref YP_635219.1	Tat pathway signal sequence domain-containing protein	A
gi 108759605 ref YP_635431.1	Slt family transglycosylase	D
gi 108761372 ref YP_635494.1	class I chitinase	C

<i>Neisseria meningitidis</i> G2136		
GI ID	Protein	*Class

gi 385339376 ref YP_005893248.1	TonB-dependent siderophore receptor	C
gi 385339471 ref YP_005893343.1	hemagglutinin/hemolysin family protein	A
gi 385339546 ref YP_005893418.1	copper ABC transporter periplasmic copper-binding protein	A
gi 385339593 ref YP_005893465.1	putative putrescene ABC transporter, periplasmic putrescine-binding protein	C
gi 385339625 ref YP_005893497.1	hypothetical protein NMBG2136_0596	A
gi 385339644 ref YP_005893516.1	N-acetylmuramoyl-L-alanine amidase	A
gi 385339676 ref YP_005893548.1	IgA-specific serine endopeptidase	A
gi 385339727 ref YP_005893599.1	D-alanyl-D-alanine carboxypeptidase	B
gi 385339976 ref YP_005893848.1	N-acetylmuramoyl-L-alanine amidase	A
gi 385340003 ref YP_005893875.1	hypothetical protein NMBG2136_0990	C
gi 385340010 ref YP_005893882.1	sulfate ABC transporter substrate-binding protein	C
gi 385340206 ref YP_005894078.1	transglycosylase SLT/LysM domain protein	C
gi 385340352 ref YP_005894224.1	transglycosylase SLT domain-containing protein	C
gi 385340369 ref YP_005894241.1	LysM domain/M23 peptidase domain protein	C
gi 385340377 ref YP_005894249.1	heme-utilization protein Hup	A
gi 385340416 ref YP_005894288.1	lactoferrin-binding protein A	C
gi 385340490 ref YP_005894362.1	hypothetical protein NMBG2136_1505	C
gi 385340613 ref YP_005894485.1	transferrin-binding protein 1	C
gi 385340618 ref YP_005894490.1	N-acetylmuramoyl-L-alanine amidase	A
gi 385340695 ref YP_005894567.1	hypothetical protein NMBG2136_1726	A
gi 385340795 ref YP_005894667.1	transglycosylase SLT domain-containing protein	C
gi 385340816 ref YP_005894688.1	hypothetical protein NMBG2136_1862	C
gi 385340818 ref YP_005894690.1	hemoglobin and hemoglobin-haptoglobin-binding protein B precursor	C

<i>Paenibacillus polymyxa</i> CR1		
GI ID	Protein	*Class
gi 565990188 ref YP_008909728.1	pectate lyase	A
gi 565990534 ref YP_008910104.1	peptidase m28	A
gi 565990569 ref YP_008910141.1	hypothetical protein X809_03145	A

gi 565990822 ref YP_008910410.1	rhamnogalacturonate lyase	A
gi 565990877 ref YP_008910469.1	hypothetical protein X809_04870	A
gi 565990989 ref YP_008910587.1	phospholipid phosphatase	C
gi 565991163 ref YP_008910803.1	hypothetical protein X809_06555	C
gi 565991166 ref YP_008910807.1	N-acetylmuramoyl-L-alanine amidase	A
gi 565991466 ref YP_008911122.1	beta-xylosidase	C
gi 565991557 ref YP_008911220.1	lytic transglycosylase	C
gi 565994995 ref YP_008911279.1	hypothetical protein X809_09020	A
gi 565991611 ref YP_008911280.1	type IV secretion protein Rhs	A
gi 565991688 ref YP_008911358.1	N-acetylmuramoyl-L-alanine amidase	A
gi 565995051 ref YP_008912089.1	hypothetical protein X809_13220	C
gi 565992414 ref YP_008912160.1	lytic transglycosylase	C
gi 565992438 ref YP_008912195.1	arabinoxylan arabinofuranohydrolase	A
gi 565992703 ref YP_008912489.1	cwlv	A
gi 565992704 ref YP_008912490.1	cwlu	A
gi 565992727 ref YP_008912514.1	alkaline phosphatase	A
gi 565992919 ref YP_008912710.1	DNA-directed RNA polymerase subunit beta	A
gi 565993024 ref YP_008912818.1	sugar ABC transporter	C
gi 565993151 ref YP_008912948.1	lytic transglycosylase	C
gi 565993417 ref YP_008913258.1	TldD protein	A
gi 565993466 ref YP_008913326.1	serine protease	A
gi 565993481 ref YP_008913341.1	endo-1,3-beta-glucanase	A
gi 565993784 ref YP_008913657.1	bacillolysin	A
gi 565993785 ref YP_008913658.1	bacillolysin	A
gi 565993839 ref YP_008913714.1	mannanase	A
gi 565994167 ref YP_008914070.1	N-acetylmuramoyl-L-alanine amidase	A
gi 565994303 ref YP_008914243.1	mannan endo-1,4-beta-mannosidase	A
gi 565994371 ref YP_008914322.1	copper amine oxidase	C
gi 565994375 ref YP_008914326.1	hypothetical protein X809_25035	A

gi 565994592 ref YP_008914555.1	arabinanase	A
gi 565994639 ref YP_008914606.1	alpha-amylase	A
gi 565994659 ref YP_008914626.1	hypothetical protein X809_26560	C
gi 565994809 ref YP_008914794.1	cellulase	A
<i>Pasteurella multocida</i> subsp. multocida str. 3480		
GI ID	Protein	*Class
gi 386833945 ref YP_006239260.1	AmiC protein	A
gi 386834140 ref YP_006239455.1	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	B
gi 386834231 ref YP_006239546.1	LppC	C
gi 386834525 ref YP_006239841.1	peptidoglycan amidase MepA	B
gi 386834817 ref YP_006240134.1	N-acetylmuramyl L-alanine amidase, putative	A
gi 386834871 ref YP_006240188.1	phage endolysin, putative	C
gi 386834909 ref YP_006240226.1	ArtI protein	C
gi 386834954 ref YP_006240271.1	2',3'-cyclic-nucleotide 2'-phosphodiesterase	A
gi 386835445 ref YP_006240764.1	MapA protein	A
gi 386835501 ref YP_006240820.1	HasR protein	C
gi 386835696 ref YP_006241016.1	hypothetical protein	A

<i>Prevotella ruminicola</i> 23		
GI ID	Protein	*Class
gi 294672897 ref YP_003573513.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294672936 ref YP_003573552.1	TonB dependent receptor	A
gi 294673066 ref YP_003573682.1	hypothetical protein PRU_0294	C
gi 294673151 ref YP_003573767.1	transglycosylase SLT domain-containing protein	C
gi 294673377 ref YP_003573993.1	outer membrane receptor (OMR) family transporter	A
gi 294673527 ref YP_003574143.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294673552 ref YP_003574168.1	hypothetical protein PRU_0814	C
gi 294673698 ref YP_003574314.1	hemagglutinin	A

gi 294673742 ref YP_003574358.1	hypothetical protein PRU_1026	C
gi 294673796 ref YP_003574412.1	outer membrane receptor (OMR) family transporter	A
gi 294673840 ref YP_003574456.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294673864 ref YP_003574480.1	TonB dependent receptor	A
gi 294673865 ref YP_003574481.1	lipoprotein	C
gi 294673928 ref YP_003574544.1	lipoprotein	A
gi 294673950 ref YP_003574566.1	hypothetical protein PRU_1251	A
gi 294673966 ref YP_003574582.1	TonB dependent receptor	A
gi 294673969 ref YP_003574585.1	GLUG domain-containing protein	A
gi 294673984 ref YP_003574600.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294674152 ref YP_003574768.1	outer membrane protein SusC	A
gi 294674153 ref YP_003574769.1	hypothetical protein PRU_1463	C
gi 294674254 ref YP_003574870.1	lipoprotein	A
gi 294674258 ref YP_003574874.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294674270 ref YP_003574886.1	hypothetical protein PRU_1586	C
gi 294674274 ref YP_003574890.1	receptor antigen RagA	A
gi 294674278 ref YP_003574894.1	outer membrane protein SusC	A
gi 294674453 ref YP_003575069.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294674508 ref YP_003575124.1	RHS/YD repeat protein	C
gi 294674515 ref YP_003575131.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294674542 ref YP_003575158.1	receptor antigen RagA	A
gi 294674543 ref YP_003575159.1	lipoprotein	C
gi 294674544 ref YP_003575160.1	lipoprotein	C
gi 294674551 ref YP_003575167.1	lysozyme	C
gi 294674554 ref YP_003575170.1	hypothetical protein PRU_1886	A
gi 294674555 ref YP_003575171.1	lipoprotein	C
gi 294674556 ref YP_003575172.1	TonB dependent receptor	A
gi 294674557 ref YP_003575173.1	hypothetical protein PRU_1889	C
gi 294674614 ref YP_003575230.1	receptor antigen RagA	A

gi 294674730 ref YP_003575346.1	hypothetical protein PRU_2074	A
gi 294674732 ref YP_003575348.1	family 43 glycosyl hydrolase	A
gi 294674819 ref YP_003575435.1	hypothetical protein PRU_2169	C
gi 294674823 ref YP_003575439.1	hypothetical protein PRU_2173	A
gi 294674869 ref YP_003575485.1	lipoprotein	C
gi 294674870 ref YP_003575486.1	TonB dependent receptor	A
gi 294674873 ref YP_003575489.1	hypothetical protein PRU_2228	A
gi 294674914 ref YP_003575530.1	hypothetical protein PRU_2272	A
gi 294675062 ref YP_003575678.1	N-acetylmuramoyl-L-alanine amidase	A
gi 294675072 ref YP_003575688.1	outer membrane protein	A
gi 294675073 ref YP_003575689.1	lipoprotein	C
gi 294675079 ref YP_003575695.1	receptor antigen RagA	A
gi 294675122 ref YP_003575738.1	outer membrane receptor (OMR) family transporter	A
gi 294675312 ref YP_003575928.1	outer membrane protein SusC	A
gi 294675328 ref YP_003575944.1	hypothetical protein PRU_2697	A
gi 294675335 ref YP_003575951.1	TonB dependent receptor	A
gi 294675363 ref YP_003575979.1	hypothetical protein PRU_2734	A
gi 294675365 ref YP_003575981.1	hypothetical protein PRU_2736	A
gi 294675429 ref YP_003576045.1	lipoprotein	A
gi 294675448 ref YP_003576064.1	receptor antigen RagA	A
gi 294675517 ref YP_003576133.1	hypothetical protein PRU_2899	C

<i>Pseudomonas aeruginosa</i> B136-33		
GI ID	Protein	*Class
gi 478476228 ref YP_007706879.1	phospholipase C	A
gi 478476251 ref YP_007706902.1	hypothetical protein G655_00255	A
gi 478476289 ref YP_007706940.1	hypothetical protein G655_00445	C
gi 478476391 ref YP_007707042.1	putative TonB-dependent receptor	C
gi 478476588 ref YP_007707239.1	hypothetical protein G655_01950	C

gi 478476776 ref YP_007707427.1	hypothetical protein G655_02890	C
gi 478476822 ref YP_007707473.1	putative bacteriophage protein	C
gi 478476825 ref YP_007707476.1	tail fiber	C
gi 478476835 ref YP_007707486.1	lytic enzyme	C
gi 478476955 ref YP_007707606.1	putative porin	C
gi 478477131 ref YP_007707782.1	penicillin-binding protein 2	A
gi 478477133 ref YP_007707784.1	lytic murein transglycosylase B	C
gi 478477141 ref YP_007707792.1	putative murein transglycosylase	C
gi 478477236 ref YP_007707887.1	Fe(III) dicitrate transport protein FecA	C
gi 478477303 ref YP_007707954.1	Rhs family protein-like protein	C
gi 478477391 ref YP_007708042.1	membrane-bound lytic transglycosylase F	C
gi 478477623 ref YP_007708274.1	putative serine protease	C
gi 478477718 ref YP_007708369.1	hypothetical protein G655_07610	C
gi 478477736 ref YP_007708387.1	secretion protein	C
gi 478477835 ref YP_007708486.1	phosphonate ABC transporter periplasmic phosphonate-binding protein	C
gi 478478073 ref YP_007708724.1	glycine betaine transmethylase	A
gi 478478074 ref YP_007708725.1	hypothetical protein G655_09390	C
gi 478478106 ref YP_007708757.1	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	B
gi 478478133 ref YP_007708784.1	putative soluble lytic transglycosylase	C
gi 478478246 ref YP_007708897.1	TonB-dependent receptor	A
gi 478478292 ref YP_007708943.1	Slr family transglycosylase	C
gi 478478743 ref YP_007709394.1	hypothetical protein G655_12755	C
gi 478478782 ref YP_007709433.1	porin	C
gi 478478824 ref YP_007709475.1	hypothetical protein G655_13160	C
gi 478478841 ref YP_007709492.1	type VI secretion protein IcmF	C
gi 478478867 ref YP_007709518.1	TonB-dependent receptor	C
gi 478478928 ref YP_007709579.1	penicillin-binding protein 3A	A
gi 478478971 ref YP_007709622.1	hypothetical protein G655_13895	C
gi 478479123 ref YP_007709774.1	TonB-dependent receptor	C

gi 478479142 ref YP_007709793.1	TonB dependent receptor	C
gi 478479155 ref YP_007709806.1	hypothetical protein G655_14815	C
gi 478479177 ref YP_007709828.1	thiamine pyrophosphate protein	C
gi 478479345 ref YP_007709996.1	LasA protease	C
gi 478479408 ref YP_007710059.1	membrane-bound lytic murein transglycosylase D	C
gi 478479567 ref YP_007710218.1	hypothetical protein G655_16890	C
gi 478479951 ref YP_007710602.1	putative tonB-dependent receptor	A
gi 478480067 ref YP_007710718.1	transglycosylase	C
gi 478480158 ref YP_007710809.1	flagellar hook-associated protein FlgK	C
gi 478480228 ref YP_007710879.1	cis,cis-muconate transporter MucK	C
gi 478480243 ref YP_007710894.1	hypothetical protein G655_20275	C
gi 478480389 ref YP_007711040.1	D-alanyl-D-alanine endopeptidase	B
gi 478480407 ref YP_007711058.1	chitin-binding protein CbpD	C
gi 478480452 ref YP_007711103.1	AmpDh3	A
gi 478480571 ref YP_007711222.1	hypothetical protein G655_21915	A
gi 478480758 ref YP_007711409.1	murein hydrolase B	C
gi 478480814 ref YP_007711465.1	ABC transporter binding protein	C
gi 478480816 ref YP_007711467.1	binding protein component of ABC transporter	C
gi 478480836 ref YP_007711487.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 478480914 ref YP_007711565.1	soluble lytic murein transglycosylase	C
gi 478480986 ref YP_007711637.1	type 4 fimbrial biogenesis protein	C
gi 478481045 ref YP_007711696.1	catalase	A
gi 478481083 ref YP_007711734.1	hypothetical protein G655_24520	C
gi 478481145 ref YP_007711796.1	Heme/Hemoglobin uptake outer membrane receptor PhuR precursor	A
gi 478481312 ref YP_007711963.1	hypothetical protein G655_25665	C
gi 478481344 ref YP_007711995.1	putative extracellular heme-binding protein	C
gi 478481395 ref YP_007712046.1	N-acetylmuramoyl-L-alanine amidase	A
gi 478481422 ref YP_007712073.1	outer membrane protein	C
gi 478481480 ref YP_007712131.1	short chain dehydrogenase	C

gi 478481652 ref YP_007712303.1	LD-carboxypeptidase	B
gi 478481776 ref YP_007712427.1	putative binding protein component of ABC dipeptide transporter	C
gi 478481946 ref YP_007712597.1	N-acetylmuramoyl-L-alanine amidase	A
gi 478481998 ref YP_007712649.1	N-acetylmuramoyl-L-alanine amidase	A

<i>Rickettsia rickettsii</i> str. Hino		
GI ID	Protein	*Class
gi 379017678 ref YP_005293913.1	negative regulator of beta-lactamase expression	A
gi 379017733 ref YP_005293968.1	soluble lytic murein transglycosylase	C
gi 379018235 ref YP_005294470.1	outer membrane protein B	A
gi 379018490 ref YP_005294725.1	N-acetylmuramoyl-L-alanine amidase	A

<i>Salmonella enterica subsp. enterica serovar Typhi</i> str. CT18		
GI ID	Protein	*Class
gi 16759009 ref NP_454626.1	hypothetical protein STY0016	C
gi 16759143 ref NP_454760.1	anhydro-N-acetylmuramyl-tripeptide amidase	A
gi 16759246 ref NP_454863.1	membrane-bound lytic murein transglycosylase D	C
gi 16759255 ref NP_454872.1	type VI system protein	C
gi 16759284 ref NP_454901.1	Rhs-family protein	C
gi 16759351 ref NP_454968.1	autotransporter/virulence factor	A
gi 16759751 ref NP_455368.1	outer membrane protein X	C
gi 16759766 ref NP_455383.1	ABC transporter substrate-binding protein	C
gi 16759804 ref NP_455421.1	N-acetylmuramoyl-L-alanine amidase	A
gi 16759815 ref NP_455432.1	macrolide transporter ATP-binding protein/permease	A
gi 16759864 ref NP_455481.1	murein L,D-transpeptidase	C
gi 16759903 ref NP_455520.1	bacteriophage protein	C
gi 16759933 ref NP_455550.1	hypothetical protein STY1072	C
gi 16760058 ref NP_455675.1	flagellar protein FlgJ	C

gi 16760059 ref NP_455676.1	flagellar hook-associated protein 1	C
gi 16760207 ref NP_455824.1	murein peptide amidase A	A
gi 16760208 ref NP_455825.1	periplasmic murein peptide-binding protein MppA	C
gi 16760258 ref NP_455875.1	glucan biosynthesis protein D	C
gi 16760292 ref NP_455909.1	TonB-dependent receptor YncD	A
gi 16760428 ref NP_456045.1	bacteriophage baseplate protein	C
gi 16760442 ref NP_456059.1	outer membrane protein	C
gi 16760608 ref NP_456225.1	outer membrane protein	C
gi 16760660 ref NP_456277.1	hypothetical protein STY1889	C
gi 16760690 ref NP_456307.1	L,D-carboxypeptidase A	B
gi 16760757 ref NP_456374.1	bacteriophage tail protein	C
gi 16760787 ref NP_456404.1	endolysin	C
gi 16760937 ref NP_456554.1	outer membrane protein S1	C
gi 16761307 ref NP_456924.1	penicillin-insensitive murein endopeptidase	B
gi 16761368 ref NP_456985.1	N-acetylmuramoyl-L-alanine amidase	A
gi 16761395 ref NP_457012.1	esterase	A
gi 16761429 ref NP_457046.1	exodeoxyribonuclease large subunit	A
gi 16761431 ref NP_457048.1	hypothetical protein STY2760	A
gi 16761541 ref NP_457158.1	large repetitive protein	A
gi 16761607 ref NP_457224.1	membrane-bound lytic transglycosylase B	C
gi 16761654 ref NP_457271.1	cell invasion protein	D
gi 16761767 ref NP_457384.1	N-acetylmuramoyl-L-alanine amidase	A
gi 16761888 ref NP_457505.1	membrane-bound lytic murein transglycosylase C	C
gi 16762062 ref NP_457679.1	penicillin-binding protein	B
gi 16762256 ref NP_457873.1	lysozyme	C
gi 16762262 ref NP_457879.1	phage baseplate assembly protein	C
gi 16762647 ref NP_458264.1	exported amidase	C
gi 16762664 ref NP_458281.1	biotin sulfoxide reductase	A
gi 16762667 ref NP_458284.1	hypothetical protein STY4161	A

gi 16762697 ref NP_458314.1	phage-like lysozyme	C
gi 16763038 ref NP_458655.1	hypothetical protein STY4570	A
gi 16763079 ref NP_458696.1	phage baseplate assembly protein	C
gi 16763084 ref NP_458701.1	hypothetical protein STY4619	C
gi 16763085 ref NP_458702.1	lysozyme	C
gi 16763177 ref NP_458794.1	N-acetylmuramoyl-L-alanine amidase	A
gi 541470449 ref NP_458990.3	lytic murein transglycosylase	C

<i>Salmonella enterica subsp. enterica serovar Typhimurium</i> str. DT104		
GI ID	Protein	*Class
gi 550899447 ref YP_008668539.1	hypothetical protein DT104_00151	C
gi 550899571 ref YP_008668663.1	anhydro-N-acetylmuramyl-tripeptide amidase	A
gi 550899675 ref YP_008668767.1	membrane-bound lytic murein transglycosylase D	C
gi 550899682 ref YP_008668774.1	type vi secretion system lysozyme-like SciD protein	C
gi 550899687 ref YP_008668779.1	type IV secretion system SciI protein	C
gi 550899707 ref YP_008668799.1	rhs-family protein	C
gi 550899761 ref YP_008668853.1	Endopeptidase	B
gi 550899827 ref YP_008668919.1	autotransporter/virulence factor	A
gi 550900249 ref YP_008669341.1	outer membrane protein X precursor	C
gi 550900264 ref YP_008669356.1	ABC transporter substrate-binding protein	C
gi 550900307 ref YP_008669399.1	N-acetylmuramoyl-L-alanine amidase	A
gi 550900318 ref YP_008669410.1	ABC transporter	A
gi 550900369 ref YP_008669461.1	hypothetical protein DT104_09691	C
gi 550900404 ref YP_008669496.1	phage lysozyme	C
gi 550900405 ref YP_008669497.1	phage lysozyme	C
gi 550900417 ref YP_008669509.1	tape measure protein	C
gi 550900428 ref YP_008669520.1	Tail Fiber Protein	A
gi 550900558 ref YP_008669650.1	flagellar protein FlgJ	C

gi 550900559 ref YP_008669651.1	flagellar hook-associated protein 1	C
gi 550900581 ref YP_008669673.1	outer-membrane receptor	C
gi 550900655 ref YP_008669747.1	outer membrane protein	C
gi 550900947 ref YP_008670039.1	TonB-dependent receptor YncD	A
gi 550900982 ref YP_008670074.1	glucans biosynthesis protein D	C
gi 550901038 ref YP_008670130.1	periplasmic murein peptide-binding protein MppA	C
gi 550901039 ref YP_008670131.1	hypothetical protein DT104_16501	A
gi 550901155 ref YP_008670247.1	hypothetical protein DT104_17681	B
gi 550901233 ref YP_008670325.1	prophage protein	A
gi 550901239 ref YP_008670331.1	transglycosylase	C
gi 550901253 ref YP_008670345.1	Lysozyme	C
gi 550901388 ref YP_008670480.1	outer membrane protein S1	A
gi 550901606 ref YP_008670698.1	penicillin-binding protein	B
gi 550901817 ref YP_008670909.1	penicillin-insensitive murein endopeptidase	B
gi 550901877 ref YP_008670969.1	N-acetylmuramoyl-L-alanine amidase	A
gi 550901905 ref YP_008670997.1	hypothetical protein DT104_25311	A
gi 550901939 ref YP_008671031.1	host colonisation factor ShdA	A
gi 550901940 ref YP_008671032.1	protein RatA	A
gi 550901990 ref YP_008671082.1	hypothetical protein DT104_26181	C
gi 550902014 ref YP_008671106.1	DNA recombinase	A
gi 550902021 ref YP_008671113.1	prophage protein	C
gi 550902038 ref YP_008671130.1	prophage protein	C
gi 550902039 ref YP_008671131.1	phage encoded lysozyme	C
gi 550902109 ref YP_008671201.1	large repetitive protein	A
gi 550902196 ref YP_008671288.1	membrane-bound lytic murein transglycosylase B	C
gi 550902241 ref YP_008671333.1	cell invasion protein	D
gi 550902354 ref YP_008671446.1	N-acetylmuramoyl-L-alanine amidase	A
gi 550902474 ref YP_008671566.1	membrane-bound lytic murein transglycosylase C	C
gi 550902482 ref YP_008671574.1	arylsulfatase	C

gi 550902655 ref YP_008671747.1	penicillin-binding protein	B
gi 550902823 ref YP_008671915.1	surface-exposed virulence protein BigA	A
gi 550902985 ref YP_008672077.1	lipoprotein	A
gi 550902988 ref YP_008672080.1	biotin sulfoxide reductase	A
gi 550903005 ref YP_008672097.1	amidase	C
gi 550903100 ref YP_008672192.1	autotransported protein MisL	A
gi 550903489 ref YP_008672581.1	vitamin B12 receptor protein	A
gi 550903561 ref YP_008672653.1	hypothetical protein DT104_42111	C
gi 550903695 ref YP_008672787.1	N-acetylmuramoyl-L-alanine amidase	A
gi 550903909 ref YP_008673001.1	lytic murein transglycosylase	C

<i>Shigella flexneri</i> 2a str. 2457T		
GI ID	Protein	*Class
gi 30061676 ref NP_835847.1	N-acetyl-anhydromuramyl-L-alanine amidase	A
gi 30061763 ref NP_835934.1	membrane-bound lytic murein transglycosylase D	C
gi 30061781 ref NP_835952.1	endolysin R of prophage CP-933V, partial	C
gi 30061800 ref NP_835971.1	DNA transfer protein	C
gi 30061837 ref NP_836008.1	Rhs-family protein	C
gi 30062230 ref NP_836401.1	endolysin R of prophage CP-933V	C
gi 30062231 ref NP_836402.1	endopeptidase	B
gi 30062298 ref NP_836469.1	outer membrane protein X	C
gi 30062351 ref NP_836522.1	regulator	A
gi 30062460 ref NP_836631.1	hypothetical protein S0986	C
gi 30062617 ref NP_836788.1	flagellar rod assembly protein/muramidase FlgJ	C
gi 30062687 ref NP_836858.1	hypothetical protein S1242	A
gi 30062710 ref NP_836881.1	L,D-carboxypeptidase A	B
gi 30062726 ref NP_836897.1	adhesion and penetration protein	A
gi 30062815 ref NP_836986.1	peptide transport periplasmic protein	C
gi 30062844 ref NP_837015.1	murein peptide amidase A	A

gi 30062850 ref NP_837021.1	transport periplasmic protein	C
gi 30063011 ref NP_837182.1	hypothetical protein S1625	C
gi 30063541 ref NP_837712.1	hypothetical protein S2289	C
gi 161486468 ref NP_837752.2	D-alanyl-D-alanine endopeptidase	B
gi 30063753 ref NP_837924.1	hypothetical protein S2538	B
gi 30063754 ref NP_837925.1	penicillin-insensitive murein endopeptidase	B
gi 30063765 ref NP_837936.1	long-chain fatty acid outer membrane transporter	C
gi 30063827 ref NP_837998.1	N-acetylmuramoyl-l-alanine amidase I	A
gi 30063868 ref NP_838039.1	hypothetical protein S2687	C
gi 30063945 ref NP_838116.1	transglycosylase	C
gi 30063958 ref NP_838129.1	hypothetical protein S2790	C
gi 30064031 ref NP_838202.1	LysM domain/BON superfamily protein	C
gi 30064061 ref NP_838232.1	murein hydrolase B	C
gi 30064159 ref NP_838330.1	amidase	A
gi 30064284 ref NP_838455.1	murein transglycosylase C	C
gi 30064293 ref NP_838464.1	serine protease precursor	A
gi 30064520 ref NP_838691.1	D-alanyl-D-alanine carboxypeptidase	B
gi 30064743 ref NP_838914.1	vitamin B12/cobalamin outer membrane transporter	A
gi 30065145 ref NP_839316.1	hypothetical protein S4155	C
gi 30065417 ref NP_839588.1	hypothetical protein S4448	C
gi 30065527 ref NP_839698.1	beta-lactamase	B
gi 30065541 ref NP_839712.1	N-acetylmuramoyl-l-alanine amidase II	A
gi 161486362 ref NP_839800.2	lytic murein transglycosylase	C

<i>Staphylococcus aureus subsp. aureus</i> ST228		
GI ID	Protein	*Class
gi 470221981 ref YP_007620538.1	Lysostaphin	A
gi 470222107 ref YP_007620664.1	N-acetylmuramoyl-L-alanine amidase sle1	A
gi 470222266 ref YP_007620823.1	Secretory antigen SsaA homologue	A

gi 470222491 ref YP_007621048.1	Bifunctional autolysin	C
gi 470222773 ref YP_007621330.1	C-terminal processing peptidase family protein	A
gi 470222931 ref YP_007621488.1	Probable cell wall amidase LytH	A
gi 470223049 ref YP_007621606.1	Family=4 N-acetylmuramoyl-L-alanine amidase	C
gi 470223179 ref YP_007621736.1	Lytic enzyme	A
gi 470223183 ref YP_007621740.1	Bacteriophage tail length tape measure protein	D
gi 470223386 ref YP_007621943.1	Urease subunit alpha	A
gi 470223393 ref YP_007621950.1	Staphylococcal secretory antigen ssaA2	A
gi 470223607 ref YP_007622164.1	Staphylococcal secretory antigen ssaA	A
gi 470223610 ref YP_007622167.1	Probable transglycosylase isaA	C
gi 470223677 ref YP_007622234.1	Similar to autolysin	C

<i>Staphylococcus epidermidis</i> ATCC 12228		
GI ID	Protein	*Class
gi 27467163 ref NP_763800.1	triacylglycerol lipase	A
gi 27467351 ref NP_763988.1	secretory antigen SsaA-like protein	A
gi 27467455 ref NP_764092.1	hypothetical protein SE0537	A
gi 27467668 ref NP_764305.1	N-acetylmuramoyl-L-alanine amidase	A
gi 27468231 ref NP_764868.1	N-acetylmuramoyl-L-alanine amidase	A
gi 27468361 ref NP_764998.1	hypothetical protein SE1443	A
gi 27468790 ref NP_765427.1	ssaA protein	A
gi 27469042 ref NP_765679.1	ssaA protein	A
gi 27469044 ref NP_765681.1	hypothetical protein SE2126	C
gi 27469115 ref NP_765752.1	alkaline phosphatase	A
gi 27469149 ref NP_765786.1	N-acetylmuramoyl-L-alanine amidase	A
gi 27469237 ref NP_765874.1	autolysin (N-acetylmuramoyl-L-alanine amidase	A
gi 27469291 ref NP_765928.1	1,4-beta-N-acetylmuramidase	C

<i>Streptococcus pneumoniae</i> ATCC 700669		
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GI ID	Protein	*Class
gi 221231241 ref YP_002510393.1	cell wall surface anchored protein	A
gi 221231242 ref YP_002510394.1	penicillin-binding protein 1A	C
gi 221231747 ref YP_002510899.1	glycosyl hydrolase	A
gi 221232001 ref YP_002511153.1	sialidase (neuraminidase)	A
gi 221232082 ref YP_002511235.1	cell wall hydrolase	B
gi 221232275 ref YP_002511428.1	autolysin	A
gi 221232276 ref YP_002511429.1	antiholin	A
gi 221232280 ref YP_002511433.1	platelet-binding phage protein	A
gi 221232334 ref YP_002511487.1	exported choline-binding glycosyl hydrolase	C
gi 221232666 ref YP_002511820.1	cell wall-binding amidase	A

<i>Streptococcus pyogenes</i> A20		
GI ID	Protein	*Class
gi 410679721 ref YP_006932123.1	hypothetical protein A20_0061c	A
gi 410680179 ref YP_006932581.1	glycosyl hydrolases 25 family protein	A
gi 410680343 ref YP_006932745.1	mannosyl-glycoendo-beta-N-acetylglucosaminidase family protein	C
gi 410680669 ref YP_006933071.1	phage holin, LL-H family	A
gi 410680674 ref YP_006933076.1	mannosyl-glycoendo-beta-N-acetylglucosaminidase family protein	A
gi 410680732 ref YP_006933134.1	cyclomaltodextrin glucanotransferase	A
gi 410680839 ref YP_006933241.1	mannosyl-glycoendo-beta-N-acetylglucosaminidase family protein	A
gi 410681018 ref YP_006933420.1	penicillin-binding protein 1A	C
gi 410681200 ref YP_006933602.1	CHAP domain-containing protein	A
gi 410681339 ref YP_006933741.1	pullulanase	A
gi 410681372 ref YP_006933774.1	C5a peptidase	A
gi 410681408 ref YP_006933810.1	penicillin-binding , 1A family protein	C
gi 410681497 ref YP_006933899.1	transglycosylase-like domain-containing protein	C

<i>Treponema pallidum subsp. pallidum str. Nichols</i>		

GI ID	Protein	*Class
gi 15639037 ref NP_218483.1	soluble lytic transglycosylase,	C
gi 15639239 ref NP_218687.1	N-acetylmuramoyl-L-alanine amidase (amiA)	A
gi 15639560 ref NP_219010.1	Tp70 protein	C
gi 15639793 ref NP_219243.1	femA protein,	C

<i>Vibrio cholerae</i> O395		
GI ID	Protein	*Class
gi 147673807 ref YP_001216126.1	D-alanyl-D-alanine carboxypeptidase	B
gi 147673203 ref YP_001216193.1	soluble lytic murein transglycosylase	C
gi 147674148 ref YP_001216207.1	protease	B
gi 147673383 ref YP_001216326.1	lipoprotein	A
gi 147674227 ref YP_001216347.1	transglycosylase	C
gi 147674390 ref YP_001216595.1	hypothetical protein VC0395_A0645	C
gi 147673728 ref YP_001216638.1	bacteriophage Mu tail sheath protein (GpL)	C
gi 147674078 ref YP_001216699.1	bacteriophage Mu tail sheath protein (GpL)	C
gi 147675379 ref YP_001217171.1	cadherin domain-containing protein	A
gi 147673281 ref YP_001217324.1	neuraminidase	A
gi 147675561 ref YP_001217481.1	chitinase	C
gi 147673804 ref YP_001217753.1	membrane-bound lytic murein transglycosylase D	C
gi 147673296 ref YP_001217921.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 147674843 ref YP_001218242.1	TonB-dependent receptor	C
gi 147675682 ref YP_001218613.1	N-acetylmuramoyl-L-alanine amidase	A

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GI ID	Protein	*Class
gi 384137037 ref YP_005519739.1	putative kinase	B
gi 384137161 ref YP_005519863.1	lac repressor	A
gi 384137347 ref YP_005520049.1	outer membrane channel protein	C

gi 384137406 ref YP_005520108.1	putative autotransporter protein	C
gi 384137413 ref YP_005520115.1	putative adhesin	C
gi 384137424 ref YP_005520126.1	putative autotransporter protein	A
gi 384137509 ref YP_005520211.1	hypothetical protein A1122_02570	C
gi 384137517 ref YP_005520219.1	LPS assembly outer membrane complex protein LptD	A
gi 384137559 ref YP_005520261.1	lytic murein transglycosylase	C
gi 384137648 ref YP_005520350.1	N-acetylmuramoyl-L-alanine amidase-family protein	A
gi 384137711 ref YP_005520413.1	hypothetical protein A1122_03590	A
gi 384138154 ref YP_005520856.1	periplasmic pectate lyase	C
gi 384138224 ref YP_005520926.1	putative TonB dependent receptor protein	A
gi 384138237 ref YP_005520939.1	vitamin B12/cobalamin outer membrane transporter	C
gi 384138442 ref YP_005521144.1	hypothetical protein A1122_07345	C
gi 384138470 ref YP_005521172.1	Rhs-like core protein	A
gi 384138643 ref YP_005521345.1	D-alanyl-D-alanine carboxypeptidase	B
gi 384138726 ref YP_005521428.1	N-acetyl-anhydromuranmyl-L-alanine amidase	A
gi 384138915 ref YP_005521617.1	putative adhesin	A
gi 384139126 ref YP_005521828.1	putative autotransporter	A
gi 384139196 ref YP_005521898.1	murein hydrolase B	C
gi 384139337 ref YP_005522039.1	membrane-bound lytic transglycosylase F	C
gi 384139363 ref YP_005522065.1	putative autotransporter protein	A
gi 384139407 ref YP_005522109.1	penicillin-insensitive murein endopeptidase	B
gi 384139431 ref YP_005522133.1	hypothetical protein A1122_12405	C
gi 384139508 ref YP_005522210.1	putative solute-binding protein	A
gi 384139522 ref YP_005522224.1	glycine betaine transporter periplasmic subunit	C
gi 384139668 ref YP_005522370.1	outer membrane protein X	C
gi 384139684 ref YP_005522386.1	putative hemolysin	A
gi 384139737 ref YP_005522439.1	putative membrane-bound lytic murein transglycosylase	C
gi 384139793 ref YP_005522495.1	insecticidal toxin	A
gi 384139833 ref YP_005522535.1	murein peptide amidase A	B

gi 384139965 ref YP_005522667.1	bifunctional indole-3-glycerol phosphate synthase/phosphoribosylanthranilate isomerase	C
gi 384140017 ref YP_005522719.1	hypothetical protein A1122_15380	C
gi 384140037 ref YP_005522739.1	putative phage host specificity protein	A
gi 384140072 ref YP_005522774.1	putative phage lysozyme	C
gi 384140126 ref YP_005522828.1	putative hemolysin	A
gi 384140230 ref YP_005522932.1	hypothetical protein A1122_16460	C
gi 384140302 ref YP_005523004.1	flagellar hook-associated protein FlgK	C
gi 384140303 ref YP_005523005.1	flagellar rod assembly protein/muramidase FlgJ	C
gi 384140398 ref YP_005523100.1	N-acetylmuramoyl-L-alanine amidase	A
gi 384140431 ref YP_005523133.1	N-acetylmuramoyl-L-alanine amidase	A
gi 384140439 ref YP_005523141.1	hypothetical protein A1122_17520	A
gi 384140886 ref YP_005523588.1	D-alanyl-D-alanine endopeptidase	B
gi 384140913 ref YP_005523615.1	outer membrane protein C2	C
gi 384140939 ref YP_005523641.1	outer membrane protease	C
gi 384140950 ref YP_005523652.1	putative bacteriophage tail sheath protein	A
gi 384141012 ref YP_005523714.1	outer membrane usher protein PsaC	A
gi 384141110 ref YP_005523812.1	N-acetylmuramoyl-L-alanine amidase	A
gi 384141122 ref YP_005523824.1	putative TonB-dependent outer membrane receptor	C