Supplementary Table 6 Functional classification of *C. novyi-NT* genes expressed in specific growth phases

This table lists the number of genes expressed in each growth phase at levels at least 2-fold higher than any of the other growth phases listed.

Manatee functional class	Predicted function within its class		00 00 00 00 00 00 00 00						
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Amino acid biosynthesis	Aromatia amina asid familu	3	14		1	83	I		
	Asonatate family		2		1	25	I		
	Glutamate family	1	2			17	I		
	Histidine family		4			9	I		
	Other					2	I		
	Pyruvate family		3			9	I		
Biosynthesis of cofactors, prost	Serine ramily	2	4		2	102	I		
Biosynthesis of colactors, prosti	Biotin	1	4		2	5	I		
	Folic acid	· ·				11	I		
	Glutathione				1	2	I		
	Heme, porphyrin, and cobalamin	5	2			33	I		
	Menaquinone and ubiquinone					1	I		
	Other	1	1		1	11	I		
	Pantotnenate and coenzyme A Pyridine nucleotides		1		1	9	I		
	Pyridoxine	1				3	I		
	Riboflavin, FMN, and FAD					4	I		
	Thiamine	1				14	I		
Cell envelope		2	7		13	219	I		
	Biosynthesis and degradation of murein sacculus and peptidoglycan					3	I		
	Biosynthesis and degradation of surface polysaccharides and lipopolysaccharides				4	60	I		
		1	6		2	84	I		
	Surface structures	1	1		1	29	I		
Cellular processes		4	5		7	226	I		
	Adaptations to atypical conditions				5	38	I		
	Cell division		1			24	I		
	Chemotaxis and motility		1		0	72	I		
					2	7	I		
	Other					7	I		
	Pathogenesis	1	1			14	I		
	Sporulation and germination	1				23	I		
	Toxin production and resistance	2	2			38	I		
Central intermediary metabolism	A	6	6		2	55	I		
	Amino sugars		2			3	I		
	Nitrogen metabolism	1				5	I		
	Other	4	4		2	42	I		
	Phosphorus compounds	1				2	I		
	Sulfur metabolism					1	I		
DNA metabolism	Chromosome appointed proteins	3	4		1	110			
	Degradation of DNA					3			
	DNA replication, recombination, and repair	3	4		1	91			
	Other					1	I		
	Restriction/modification					10	I		
Energy metabolism		21	14	3	7	247	I		
	Aerobic	1				1	I		
	Amino acids and amines	2				6	I		
	ATP-proton motive force interconversion	6			-	23			
	Biosynthesis and degradation of polysaccharides	Ť	4		1	17	I		
	Chemoautotrophy	1				1			
	Electron transport	5	2		5	77	I		
	Entner-Doudoroff	 .	-			2			
	rementation	1	2	1	1	33	I		
	Methanogenesis	<u> </u>				20 1			
	Other	2	1	1		13	I		
	Pentose phosphate pathway					7			
	Photosynthesis		1			8	I		
	Pyruvate dehydrogenase	-				3			
		2	2	1		1/			
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Fatty acid and phospholipid metabolism						48
	Biosynthesis		3			32
	Degradation		1			15
	Other					1
Hypothetical proteins		6	20	1	21	377
nypotnetical proteins	Conserved	4	16	1	10	220
		4	10	1	10	120
		2	4		11	139
Mobile and extrachromosomal element functions		1	3		4	66
	Other		3			10
	Prophage functions				1	20
	Transposon functions	1			3	36
Protein fate			4		3	115
	Degradation of proteins, peptides, and glycopeptides		2		3	69
	Protein and peptide secretion and trafficking					16
	Protein folding and stabilization		2			19
	Protein modification and repair					11
Protein synthesis		1	2		1	157
	tRNA aminoacylation				-	1
	Nucleoproteins					1
	Other					2
	Ribosomal proteins: synthesis and modification	1	1		1	78
	Translation factors					19
	tDNA aminoaculation		1			20
	tDNA and rDNA base modification					29
			-			20
Purines, pyrimiaines, nucleosiae	s, and nucleotides	4	5			61
		2				1
	Inucleotide and nucleoside interconversions					6
	Other					3
	Purine ribonucleotide biosynthesis	2	2			16
	Pyrimidine ribonucleotide biosynthesis					12
	Salvage of nucleosides and nucleotides		3			16
	Sugar-nucleotide biosynthesis and conversions					1
Regulatory functions		5	4	1		137
	DNA interactions	2	1			35
	Other	3	3	1		85
	Protein interactions					9
	RNA interactions					7
	Small molecule interactions					1
Signal transduction						18
	PTS					1
	Two component systems					17
Transcription		4	4	4		62
Tanscription	Degradation of PNA	1	1	1		03
	Degradation of RNA					6
						9
	Other	1				2
	RNA processing					12
	I ranscription factors		1	1		34
Transport and binding proteins		18	28		1	256
	Amino acids, peptides and amines	4	9			62
	Anions					6
	Carbohydrates, organic alcohols, and acids	4	4		1	32
	Cations and iron carrying compounds	6	5			51
	Nucleosides, purines and pyrimidines		1			5
	Other	1	4			28
	Unknown substrate	3	5			72
Unknown function		7	14	1	9	328
	Enzymes of unknown specificity	4	5		2	65
	General	3	.9	1	7	263
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Total		70	100	7	57	2 22 ⊑
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