TABLE S2. Genes that are transcribed at a higher level in *V. cholerae* O1 El Tor biotype. Differentially expressed genes were determined using SAM software with ≥ 2.0 fold change in gene expression and False Discovery Rate (FDR) ≤ 0.01 as a criteria. Genes that are absent in classical biotype (17) and expressed in El Tor biotype under our experimental conditions are marked with asterisk (*).

Amino Acid Biosynthesis Cysteine synthase A cysK 2.17 VCO1977 aspartate aminotransferase putative 3.70 Biosynthesis of Cofactors, Prosthetic Groups and Carriers VCO1944 gamma-glutamyltranspeptidase ggt 2.33 VC10404 gamma-glutamyltranspeptidase ggt 2.33 VC10400 immunogenic protein 2.22 VC04301 immunogenic protein 2.22 VC05022 type IV pilin_ putative 3.57 VC1318 outer membrane protein OmpV ompV 2.00 VC16212 outer membrane protein putative 11.11 VCA0311 lipoprotein Ble ble-1 2.13 VCA04040 lipoprotein Ble ble-3 2.00 VCA04043 lipoprotein Ble ble-4 2.33 VC1248 methyl-accepting chemotaxis protein 5.00 VC1238 methyl-accepting chemotaxis protein 2.70 VC1394 methyl-accepting chemotaxis protein 2.70 VC1395 chemotaxis protein CheY cheY-2 2.04 VC1396 chemotaxis protein CheY cheY-2 2.04 VC1397 chemot	Gene ID	/ Main Cellular Roles	Fold Change
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VC1967 methyl-accepting chemotaxis protein 3.57 VCA1096 chemotaxis protein CheY cheY-4 4.17 Cellular Processes: Pathogenesis VC0408 MSHA pilin protein MshB mshB 2.22 VC0409 MSHA pilin protein MshA mshA 2.33 VC1450 RTX toxin activating protein rtxC * VC1621 agglutination protein 4.17 VC1888 hemolysin-related protein 4.76 VCA0219 haemolysin hlyA 2.78 VCA0300 chloramphenicol acetyltransferase cat * Cellular Processes: Detoxification 2.22 VC1350 antioxidant_ AhpC/Tsa family 2.22 VC1350 antioxidant_ putative 2.86	VC1868		2.04
Cellular Processes: Pathogenesis VC0408 MSHA pilin protein MshB mshB 2.22 VC0409 MSHA pilin protein MshA mshA 2.33 VC1450 RTX toxin activating protein rtxC * VC1621 agglutination protein 4.17 VC1888 hemolysin-related protein 4.76 VCA0219 haemolysin hlyA 2.78 VCA0300 chloramphenicol acetyltransferase cat * Cellular Processes: Detoxification VC0731 antioxidant_ AhpC/Tsa family 2.22 VC1350 antioxidant_ putative 2.86	VC1967	· · · ·	3.57
Cellular Processes: Pathogenesis VC0408 MSHA pilin protein MshB mshB 2.22 VC0409 MSHA pilin protein MshA mshA 2.33 VC1450 RTX toxin activating protein rtxC * VC1621 agglutination protein 4.17 VC1888 hemolysin-related protein 4.76 VCA0219 haemolysin hlyA 2.78 VCA0300 chloramphenicol acetyltransferase cat * Cellular Processes: Detoxification VC0731 antioxidant_ AhpC/Tsa family 2.22 VC1350 antioxidant_ putative 2.86	VCA1096	chemotaxis protein CheY <i>cheY-4</i>	4.17
VC0409 MSHA pilin protein MshA mshA 2.33 VC1450 RTX toxin activating protein rtxC * VC1621 agglutination protein 4.17 VC1888 hemolysin-related protein 4.76 VCA0219 haemolysin hlyA 2.78 VCA0300 chloramphenicol acetyltransferase cat * Cellular Processes: Detoxification VC0731 antioxidant_ AhpC/Tsa family 2.22 VC1350 antioxidant_ putative 2.86	Cellular P		
VC1450 RTX toxin activating protein rtxC * VC1621 agglutination protein 4.17 VC1888 hemolysin-related protein 4.76 VCA0219 haemolysin hlyA 2.78 VCA0300 chloramphenicol acetyltransferase cat * Cellular Processes: Detoxification VC0731 antioxidant_ AhpC/Tsa family 2.22 VC1350 antioxidant_ putative 2.86	VC0408	MSHA pilin protein MshB <i>mshB</i>	2.22
VC1450RTX toxin activating protein $rtxC$ *VC1621agglutination protein4.17VC1888hemolysin-related protein4.76VCA0219haemolysin $hlyA$ 2.78VCA0300chloramphenicol acetyltransferase cat *Cellular Processes: DetoxificationVC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	VC0409	1 1	2.33
VC1621agglutination protein4.17VC1888hemolysin-related protein4.76VCA0219haemolysin hlyA2.78VCA0300chloramphenicol acetyltransferase cat*Cellular Processes: DetoxificationVC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	VC1450	• •	*
VC1888hemolysin-related protein4.76VCA0219haemolysin hlyA2.78VCA0300chloramphenicol acetyltransferase cat*Cellular Processes: DetoxificationVC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	VC1621		4.17
VCA0219haemolysin hlyA2.78VCA0300chloramphenicol acetyltransferase cat*Cellular Processes: DetoxificationVC0731antioxidant_AhpC/Tsa family2.22VC1350antioxidant_putative2.86	VC1888	-	4.76
VCA0300chloramphenicol acetyltransferase cat*Cellular Processes: Detoxification*VC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	VCA0219	· ·	2.78
Cellular Processes: DetoxificationVC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	VCA0300		*
VC0731antioxidant_ AhpC/Tsa family2.22VC1350antioxidant_ putative2.86	Cellular P	<u> </u>	
VC1350 antioxidant_putative 2.86			2.22
	VC1350	= 1	2.86
	VC1583		4.76

VC2694	superoxide dismutase_ Mn sodA	2.94
Cellular P	Processes: Other	
VC0076	universal stress protein A uspA	2.50
VC0139	DPS family protein	3.45
VC1585	catalase katB	4.55
Central In	ntermediary Metabolism	
VC0454	glutaminase family protein	2.17
VCA0274	carbonic anhydrase <i>cah</i>	2.38
VCA0301	oxidoreductase_short-chain dehydrogenase/reductase family	3.70
VCA0316	acetyltransferase_ putative	*
VCA0328	biphenyl-2_3-diol 1_2-dioxygenase III-related protein	4.55
VCA0463	biphenyl-2_3-diol 1_2-dioxygenase III-related protein	3.45
VCA0523	aminotransferase_ class II	2.08
VCA0798	CbbY family protein	2.13
DNA Met	abolism	
VC0452	A/G-specific adenine glycosylase <i>mutY</i>	2.08
VC1765	type I restriction enzyme HsdR_ putative	5.00
Energy M	[etabolism	
VC0168	cytochrome c5 cycB	2.56
VC0432	malate dehydrogenase mdh	3.23
VC0478	fructose-bisphosphate aldolase_ class II fbaA	2.17
VC0574	ubiquinolcytochrome c reductase_ cytochrome B petB	2.70
VC0575	ubiquinolcytochrome c reductase_ cytochrome c1 petC	2.33
VC0604	aconitate hydratase 2 acnB	2.04
VC1336	carboxyphosphonoenolpyruvate phosphonomutase prpB	2.00
VC1338	aconitate hydratase 1 acnA	2.50
VC1439	cytochrome c oxidase_ subunit CcoP ccoP	2.04
VC1440	cytochrome c oxidase_ subunit CcoQ ccoQ	2.08
VC1558	6-phospho-beta-glucosidase <i>bglA</i>	5.56
VC1573	fumarate hydratase_class II_aerobic fumC	5.88
VC2091	succinate dehydrogenase_cytochrome b556 subunit sdhC	2.63
VCA0136	glycerophosphoryl diester phosphodiesterase $glpQ$	2.04
VCA0277	glycine cleavage system H protein gcvH	2.22
	d and Phospholipid Metabolism	
VC2759	fatty oxidation complex_ beta subunit fadA	2.00
VCA0688	polyhydroxyalkanoic acid synthase phaC	11.11
VCA0690	acetyl-CoA acetyltransferase	50.00
VCA0691	acetoacetyl-CoA reductase	25.00
	d Extrachromosomal Element Functions	
VC0516	phage integrase	*
VC1452	RstC protein rstC	2.44
VC1455	transcriptional repressor RstR rstR-1	20.00
Protein Fa	ate	
VC0034	thiol: disulfide interchange protein $tpcG$	2.63
VC0354	peptidyl-prolyl cis-trans isomerase_FKBP-type fkpA	2.08
VC0566	protease DO htrA	2.63
VC2436	outer membrane protein TolC <i>tolC</i>	2.27
VC2568	peptidyl-prolyl cis-trans isomerase_FKBP-type fklB	2.86
VCA0116	clpB protein <i>clpB-2</i>	3.23
VCA0223	protease <i>prtV</i>	3.45

Protein Sy	nthesis	
/C0219	ribosomal protein L33 rpmG	3.33
VC0878	ribosomal protein_ L31P family	2.33
VC0879	ribosomal protein L36_ putative	2.56
	rimidines, Nucleosides, Nucleotides	
VC0756	nucleoside diphosphate kinase <i>ndk</i>	2.22
VC1038	uridine kinase <i>udk</i>	2.08
VC1916	cytidylate kinase <i>cmk</i>	2.04
VCA0197	GMP reductase guaC	2.50
	y Functions	
VC0166	transcriptional regulator_ TetR family	2.38
VC0176	transcriptional regulator_ putative	*
/C0330	regulator of sigma D rsd	2.94
/C0665	sigma-54 dependent transcriptional regulator vpsR	2.17
C1081	response regulator	2.27
/C1085	sensor histidine kinase	2.08
C1142	cold shock-like protein CspD <i>cspD</i>	5.88
VC1445	sensor histidine kinase/response regulator	4.17
/C2275	transcriptional regulator Crl crl	2.44
/C2530	sigma-54 modulation protein_ putative	2.27
/CA0231	transcriptional regulator_ AraC/XylS family	2.56
'CA0697	sensory box/GGDEF family protein	7.14
/CA1087	anti-sigma F factor antagonist_putative	4.00
	and Binding Proteins	
'C0164	multidrug resistance protein_ putative	2.38
/C0171	peptide ABC transporter_ periplasmic peptide-binding protein	3.03
C0172	peptide ABC transporter_ permease protein	2.78
/C0173	peptide ABC transporter_ permease protein	3.23
C0364	bacterioferritin-associated ferredoxin bfd	2.27
C0488	extracellular solute-binding protein_ putative	8.33
C0538	thiosulfate ABC transporter_periplasmic thiosulfate-binding protein cysP	2.13
C0608	iron(III) ABC transporter_periplasmic iron-compound-binding protein	5.88
C0704	spermidine/putrescine ABC transporter_ periplasmic spermidine/putrescine- binding protein_ putative	3.45
C0774	hypothetical protein	4.35
C0775	vibriobactin synthetase_ amide synthase subunit VibH <i>vibH</i>	2.13
C0776	vibriobactin and enterobactin ABC transporter_ periplasmic ferric vibriobactin/enterobactin-binding protein <i>viuP</i>	3.45
C0777	vibriobactin and enterobactin ABC transporter_ permease protein <i>viuD</i>	2.56
C0784	sodium/alanine symporter	2.27
'C1168	proton/glutamate symporter <i>gltP-1</i>	4.00
C1325	galactoside ABC transporter_periplasmic D-galactose/D-glucose-binding protein <i>mglB</i>	2.00
C1327	galactoside ABC transporter ATP-binding protein <i>mglA</i>	2.22
/C1362	amino acid ABC transporter periplasmic amino acid-binding protein	2.78
C1424	spermidine/putrescine ABC transporter_ periplasmic spermidine/putrescine- binding protein <i>potD-1</i>	5.56
C1547	biopolymer transport protein ExbB-related protein	2.17
/C1658	serine transporter <i>sdaC-2</i>	6.67
/C1861	amino acid ABC transporter permease protein	3.85
	minio acta ribe transporter_ permense protein	5.88

VC1863		
, 01003	amino acid ABC transporter periplasmic amino acid-binding protein	4.55
VC1864	amino acid ABC transporter ATP-binding protein	2.33
VC2012	sodium-dependent transporter	7.69
VC2210	vibriobactin utilization protein ViuB <i>viuB</i>	2.38
VC2211	ferric vibriobactin receptor viuA	2.70
VCA0227	vibriobactin and enterobactin ABC transporter_ periplasmic vibriobactin/enterobactin-binding protein <i>vctP</i>	5.88
VCA0576	heme transport protein HutA <i>hutA</i>	9.09
VCA0612	large-conductance mechanosensitive channel <i>mscL</i>	4.76
VCA0759	arginine ABC transporter periplasmic arginine-binding protein <i>artI</i>	2.38
VCA0910	tonB1 protein <i>tonB1</i>	2.94
VCA0911	TonB system transport protein ExbB1 <i>exbB1</i>	4.17
VCA0912	TonB system transport protein ExbD1 <i>exbD1</i>	3.23
VCA0915	hemin ABC transporter ATP-binding protein HutD hutD	2.38
VCA0978	amino acid ABC transporter periplasmic amino acid-binding protein putative	2.22
VCA0996	ABC transporter ATP-binding protein	2.17
VCA1039	amino acid ABC transporter_ periplasmic amino acid-binding protein	2.13
Unkown F		
VC0036	FixG-related protein	3.33
VC0178	patatin family protein	*
VC1415	hcp protein hcp-1	16.67
VC1599	GGDEF family protein	2.78
VC1754	paraquat-inducible protein B <i>pqiB</i>	2.00
VCA0017	hep protein hep-2	16.67
VCA0324	DNA-damage-inducible protein J <i>dinJ</i>	3.33
VCA0628	SecA-related protein	8.33
VCA0785	GGDEF family protein	2.13
VCA0878	integrase-related protein	2.27
VPS Biosy		
VC0928	hypothetical protein	4.55
	hypothetical protein	
	hypothetical protein	3.70
VC0929	71 1	3.70 8.33
VC0929 VC0930	hemolysin-related protein	3.70 8.33
VC0929 VC0930 Hypotheti	hemolysin-related protein cal Proteins	
VC0929 VC0930 Hypotheti VC0180	hemolysin-related protein cal Proteins conserved hypothetical protein	8.33
VC0929 VC0930 Hypotheti VC0180 VC0181	hemolysin-related protein cal Proteins conserved hypothetical protein conserved hypothetical protein	* *
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480	hemolysin-related protein cal Proteins conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein	8.33
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490	hemolysin-related protein cal Proteins conserved hypothetical protein	8.33 * * 2.13
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503	hemolysin-related protein cal Proteins conserved hypothetical protein	8.33 * 2.13 * *
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559	hemolysin-related protein cal Proteins conserved hypothetical protein	* * 2.13 * 2.04
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628	hemolysin-related protein cal Proteins conserved hypothetical protein	8.33 * 2.13 * 2.04 2.63
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957	hemolysin-related protein cal Proteins conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628	hemolysin-related protein cal Proteins conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332	hemolysin-related protein cal Proteins conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332 VC1334	hemolysin-related protein cal Proteins conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26 5.26
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332 VC1334 VC1433	hemolysin-related protein cal Proteins conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26 5.26 2.38
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332 VC1334 VC1433 VC1492	hemolysin-related protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26 5.26 2.38 9.09
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332 VC1334 VC1433 VC1492 VC1576	hemolysin-related protein conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26 5.26 2.38 9.09 2.63
VC0929 VC0930 Hypotheti VC0180 VC0181 VC0480 VC0490 VC0503 VC0559 VC0628 VC0957 VC1009 VC1332 VC1334 VC1433 VC1492	hemolysin-related protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein	* 2.13 * 2.04 2.63 2.04 4.00 5.26 5.26 2.38 9.09

VC1874	conserved hypothetical protein	8.33
VC2386	conserved hypothetical protein	4.00
VC2706	conserved hypothetical protein	16.67
VCA0037	conserved hypothetical protein	2.08
VCA0048	conserved hypothetical protein	4.55
VCA0105	conserved hypothetical protein	2.33
VCA0154	conserved hypothetical protein	3.70
VCA0309	conserved hypothetical protein	3.70
VCA0323	conserved hypothetical protein	10.00
VCA0332	conserved hypothetical protein	14.29
VCA0345	conserved hypothetical protein	11.11
VCA0689	conserved hypothetical protein	50.00
VCA0903	conserved hypothetical protein	5.00
VCA1054	conserved hypothetical protein	3.57
VCA1083	conserved hypothetical protein	2.04
VCA1097	conserved hypothetical protein	5.26
VC0102	hypothetical protein	4.76
VC0179	hypothetical protein	*
VC0182	hypothetical protein	*
VC0493	hypothetical protein	*
VC0504	hypothetical protein	50.00
VC0712	hypothetical protein	2.44
VC0955	hypothetical protein	2.33
VC0996	hypothetical protein	2.22
VC1116	hypothetical protein	6.25
VC1197	hypothetical protein	2.50
VC1247	hypothetical protein	2.56
VC1323	hypothetical protein	2.27
VC1333	hypothetical protein	12.50
VC1384	hypothetical protein	2.44
VC1389	hypothetical protein	2.63
VC1396	hypothetical protein	2.44
VC1449	hypothetical protein	*
VC1548	hypothetical protein	2.63
VC1572	hypothetical protein	2.63
VC1575	hypothetical protein	2.08
VC1620	hypothetical protein	4.35
VC1742	hypothetical protein	2.27
VC1743	hypothetical protein	2.04
VC1771	hypothetical protein	5.00
VC1865	hypothetical protein	3.57
VC1933	hypothetical protein	2.94
VC1999	hypothetical protein	3.03
VC2010	hypothetical protein	2.08
VCA0032	hypothetical protein	3.70
VCA0078	hypothetical protein	2.56
VCA0081	hypothetical protein	2.94
VCA0109	hypothetical protein	3.57
VCA0112	hypothetical protein	3.33
VCA0114	hypothetical protein	2.94

	VCA0224	hypothetical protein	2.63
	VCA0283	hypothetical protein	3.13
	VCA0294	hypothetical protein	5.26
	VCA0298	hypothetical protein	4.35
	VCA0299	hypothetical protein	9.09
	VCA0307	hypothetical protein	6.67
	VCA0330	hypothetical protein	4.55
	VCA0331	hypothetical protein	4.00
	VCA0333	hypothetical protein	12.50
	VCA0340	hypothetical protein	4.35
	VCA0344	hypothetical protein	2.08
	VCA0376	hypothetical protein	3.85
	VCA0379	hypothetical protein	2.13
	VCA0380	hypothetical protein	3.85
	VCA0405	hypothetical protein	2.04
	VCA0420	hypothetical protein	2.08
	VCA0430	hypothetical protein	2.44
	VCA0448	hypothetical protein	6.67
	VCA0611	hypothetical protein	3.23
	VCA0645	hypothetical protein	2.70
	VCA0728	hypothetical protein	*
	VCA0730	hypothetical protein	*
	VCA0849	hypothetical protein	2.13
	VCA0880	hypothetical protein	2.08
	VCA0882	hypothetical protein	3.70
	VCA0883	hypothetical protein	14.29
	VCA0935	hypothetical protein	5.26
	VCA0976	hypothetical protein	2.56
	VCA0980	hypothetical protein	3.13
	VCA0981	hypothetical protein	2.44
<u>-</u>	VCA1035	hypothetical protein	2.04
<u>-</u>	Others		
	VC1935	CDP-diacylglycerolglycerol-3-phosphate 3-phosphatidyltransferase-related protein	2.17
	VCA0346	H-REV 107-related protein	8.33
	VCA0907	heme-binding protein HutZ hutZ	10.00
	VCA0908	hutX protein <i>hutX</i>	5.88