Table S1 The complete list of genes differentially expressed in Rd KW20 *nikQ*$^-$ compared to Rd KW20 listed in order of the values of the fold change.

Gene (locus, annotated function)	$\log_2$ Fold Change	P-value (p_{val})	FDR (p_{adj})
HI1047, *dmsA*	-7.16627756	0.000469468	0.04060209
HI1570; HP	-6.805632358	0.000750756	0.060060458
HI1049, *merT*	-4.588040923	0.024788659	0.69250857
HI1046, *dmsB*	-4.068666764	0.09129814	1
HI1502; Mu phage	-3.96913109	0.032710751	0.872286703
HI0109; HP	-3.746738669	0.36219236	1
HI1154; Sodium:dicarboxylate symporter family	-3.675802762	0.037775489	0.981092819
HI1080; PAAT ABC uptake	-3.495820549	0.048140171	1
HI1066, *nrfD*	-3.381454205	0.061221754	1
HI1693, *modA*	-3.345776355	0.065294708	1
HI0857; Z-ring protein ZapA	-3.331701169	0.293752571	1
HI0967	-3.331701169	0.491688554	1
HI1618; *nikO*	-3.331701169	0.491688554	1
HI0643, *bisC*	-3.208642773	0.071834893	1
HI0685, *glpA*	-3.18195405	0.071719401	1
HI0684, *glpB*	-3.054860964	0.103613344	1
HI0832, *frdD*	-2.905436415	0.105407095	1
HI0998, *rpmH*	-2.877983202	0.109127944	1
HI0853, *dppA*	-2.835547936	0.100353322	1
HI0154, *acpP*	-2.752407419	0.112178756	1
HI0495m, *aphA*	-2.746738669	0.683705834	1
HI0548, *infA*	-2.746738669	0.210962623	1
HI1079; PAAT transporter	-2.746738669	0.153016107	1
HI1493	-2.746738669	0.308102783	1
HI1500; Mu protein, gp28	-2.746738669	0.132496388	1
HI1320, *rplT*	-2.651291883	0.11999499	1
HI1519; FluMu gp46	-2.626444435	0.159086176	1
HI0189, *gdhA*	-2.600190005	0.135661554	1
HI0381, Pal OMP P6	-2.566011286	0.132459497	1
HI0082; oxidoreducatse	-2.554093591	0.362656328	1
HI1518; FluMu gp45	-2.492982076	0.174396506	1
HI0093; sugar diacid regulator	-2.483704263	0.447396303	1
HI0439, *comA*	-2.483704263	0.447396303	1
HI1319m, *rpmI*	-2.4748669	0.146387212	1
HI1356, *malQ*	-2.454972544	0.160992339	1
HI1445, *bioD*	-2.453007466	0.160274948	1
HI1095, *dsbE*	-2.438616373	0.233467098	1
HI1520; FluMu	-2.438616373	0.191285418	1
HI1067, *nrfC*	-2.36401889	0.171243639	1
HI1505, FluMu	-2.361307631	0.165645021	1
HI0228, HP	-2.331701169	0.604626777	1
HI0297, *pilC*	-2.331701169	0.604626777	1

HI0742	-2.331701169	0.251996216	1
HI1205; IM protein	-2.331701169	0.265710805	1
HI1390, *hybG*	-2.331701169	0.604626777	1
HI0745, *ansB*	-2.296425695	0.189460583	1
HI1506; FluMu	-2.250312843	0.195777111	1
HI0501, *rbsD*	-2.232165496	0.416755859	1
HI1045, *dmsC*	-2.232165496	0.416755859	1
HI0180; *pfl*	-2.205168763	0.188783539	1
HI1523; HP	-2.182837783	0.272472068	1
HI0035; RCK, potassium uptake	-2.170546378	0.20495006	1
HI0345, *napG*	-2.168439898	0.20249923	1
HI1210, *mdh*	-2.164842471	0.200376316	1
HI1398, *fumC*	-2.157022638	0.205343206	1
HI0597; HAD-like hydrolase	-2.148101231	0.225244208	1
HI1078; PAAT ABC transporter	-2.142667345	0.237234422	1
HI1522; FluMu	-2.136685187	0.25030457	1
HI0571, *oxyR*	-2.130067308	0.217199303	1
HI0001, *gapdH*	-2.117472941	0.205218429	1
HI1510; FluMu	-2.109308748	0.275511337	1
HI0757, *gpmA*	-2.097235916	0.216908183	1
HI0644, *yecK*	-2.09668114	0.237555528	1
HI0631, *coaA*	-2.068666764	0.33511158	1
HI1298; TM protein	-2.068666764	0.33511158	1
HI1508; FluMu	-2.059896554	0.230857757	1
HI0758, *rpmE*	-2.046298951	0.22879057	1
HI1676, *moaA*	-2.022373111	0.26512546	1
HI0830, *trpR*	-2.009773075	0.488251251	1
HI1370, *mopI*	-2.009773075	0.328797	1
HI0150, *hflC*	2.005823781	0.265342404	1
HI0239, *secF*	2.008148833	0.323721078	1
HI0043	2.025850835	0.446612477	1
HI1481, *muB*	2.025850835	0.346446922	1
HI0252, *exbD*	2.047677198	0.312085782	1
HI0431	2.060616253	0.434864724	1
HI0828	2.060616253	0.434864724	1
HI1173, *sprT*	2.060616253	0.518499877	1
HI1436	2.060616253	0.518499877	1
HI1684, *rnfB*	2.060616253	0.518499877	1
HI0633, membrane protein/channel	2.160151927	0.669570121	1
HI1029, TRAP, *dctM*	2.160151927	0.356109499	1
HI1480	2.160151927	0.402005004	1
HI1605	2.160151927	0.669570121	1
HI1640, *sapC*	2.160151927	0.669570121	1
HI1344, *potD*	2.164072296	0.209844784	1
HI1464, *folP-2*	2.172124569	0.277211292	1

HI0894, RND efflux pump Protein	2.183998669	0.274024401	1
HI1427	2.219045616	0.264761812	1
HI0151, *hflK*	2.238844559	0.19508015	1
HI1253, TM protein	2.253261331	0.452412833	1
HI0789, *rplX*	2.265606522	0.178939489	1
HI0144, *nanK*	2.340724173	0.234270838	1
HI0152, acyl carrier, fatty acid biosynthesis	2.340724173	0.60692834	1
HI1082, *bolA*	2.340724173	0.226309944	1
HI1281	2.340724173	0.60692834	1
HI0793, *rplF*	2.385640262	0.154893888	1
HI0573, *slyX* homolog	2.423186333	0.578389265	1
HI1695, LOS biosynthesis	2.423186333	0.397013527	1
HI1259, DegQ/htrA	2.426188821	0.152709293	1
HI1279, *neuA*	2.462714697	0.384588532	1
HI0513, *hindIIM*	2.501188845	0.372677	1
HI1375	2.501188845	0.551544309	1
HI1085	2.53866355	0.210622833	1
HI1282	2.542767949	0.182453832	1
HI0095	2.575189426	0.526281565	1
HI0242	2.575189426	0.526281565	1
HI1401, *pyrD*	2.575189426	0.350293743	1
HI1619	2.575189426	0.241689834	1
HI1624, *nikK*	2.578620332	0.144805662	1
HI1622, *nikL*	2.593111334	0.159400512	1
HI0512, *hindIIR*	2.610813336	0.339775199	1
HI1697, LOS biosynthesis	2.645578754	0.502495934	1
HI0792, *rpsH*	2.681290851	0.110572922	1
HI0240, *secD*	2.809464839	0.112113063	1
HI1283, *nusA*	2.831882305	0.109110507	1
HI1334, *rrmJ*	2.897117521	0.133109668	1
HI1479	2.925686673	0.254662336	1
HI0420 – RHH Family regulator	3.008148833	0.385730686	1
HI1010	3.008148833	0.385730686	1
HI1251, *vapA*	3.008148833	0.385730686	1
HI0417, *thiE*	3.060616253	0.222764734	1
HI0098, *hitB*	3.086151345	0.21704619	1
HI0214, *prlC*	3.137533624	0.069331909	1
HI0859, *clpB*	3.188166303	0.071396581	1
HI1621, *nikM*	3.222887682	0.141451485	1
HI1286, *hsdS*	3.275629144	0.177772067	1
HI1456, TM protein	3.275629144	0.177772067	1
HI0357, Nmt1, thiamine biosynthesis	3.423186333	0.269630584	1
HI1285, *hsdR*	3.737077109	0.061922582	1
HI0243, HHE, heme binding domain	3.867971175	0.172062369	1
HI0543, *groEL*	3.968376204	0.020518699	0.607190347

HI0497, *hslU*	4.164517119	0.021064884	0.607190347
HI1287, *hsdM*	4.207457642	0.057099089	1
HI0542, *groES*	4.727520368	0.009198035	0.337261276
HI0496, *hslV*	5.382544348	0.010443371	0.354069976
HI1237, *dnaK*	5.529385737	0.002236003	0.135702261
HI1238, *dnaJ*	5.529385737	0.003234272	0.167421132
HI0104, *htpG*	6.054161231	0.008778905	0.328741964

Fold change represent $\log_2$ fold change. Negative values are down-regulated in *nikQ* mutant compared to wild type. Annotations with TM – transmembrane protein and HP – hypothetical protein.