

Table 16. Transcripts that are significantly changed in the cancer-associated Kx2 isolate but not in the ChAG-associated Kx1 isolate after mGEP infection.

HPAG1 homolog	26695 homolog	J99 homolog	Annotation	Gene symbol	COG*/NOG**	COG category	EC† number	Fold change in KX2 upon mGEP infection	Fold change in KX1 upon mGEP infection
HPAG1_0009	HP0009	JHP0007	outer membrane protein HopZ	hopZ				-4.2	-1.0
HPAG1_0016	HP0016	JHP0014	hypothetical protein					4.2	1.1
HPAG1_0037	HP0038	JHP0034	comB8 competence protein	comB8	COG3736	U		4.8	-1.2
HPAG1_0054	HP0057	JHP0049	hypothetical protein					-2.8	4.1
HPAG1_0111	HP0111	JHP0103	heat-inducible transcription repressor	hrcA	COG1420	K		2.5	-1.8
HPAG1_0210	HP0209	JHP0195	outer membrane protein HofA	hofA				3.0	-1.6
HPAG1_0282	HP0280	JHP0265	putative lipid A biosynthesis acyltransferase	lfbpB	COG1560	M	2.3.1.-	-3.4	-1.1
HPAG1_0297	HP0295	JHP0280	putative flagellar-hook associated protein 3	fla	COG1344	N		-2.7	1.4
HPAG1_0334	HP0330	JHP0313	ketol-acid reductoisomerase	livC	COG0059	E	1.1.1.86	2.7	-1.0
HPAG1_0386	HP1061	JHP0364	sec-independent protein translocase protein	latC	COG0805	U		2.6	1.1
HPAG1_0397	HP1050	JHP0375	homoserine kinase	thrB	COG0083	E	2.7.1.39	2.8	-1.1
HPAG1_0398	HP1049	JHP0376	hypothetical protein		COG2740	K		3.1	1.1
HPAG1_0422	HP1025	JHP0399	putative heat shock protein	hspR	COG0789	K		2.9	1.1
HPAG1_0534	HP0556	JHP0503	hypothetical protein					3.9	-1.0
HPAG1_0544	HP0565	JHP0512	hypothetical protein		COG3059	S		-3.4	1.0
HPAG1_0553	HP0574	JHP0521	ribose 5-phosphate isomerase	rpi	COG0698	G	5.3.1.6	-2.4	-1.0
HPAG1_0632	HP0647	JHP0592	hypothetical protein		NOG46051			-2.5	1.8
HPAG1_0679	HP0694	JHP0634	putative outer membrane protein		COG3528	S		2.8	1.1
HPAG1_0739	HP0754	JHP0691	hypothetical protein					3.4	-1.1
HPAG1_0790	HP0805	JHP0741	lipooligosaccharide 5G8 epitope biosynthesis-associated protein	lex2B	COG3306	M		5.3	-1.3
HPAG1_0874	HP0895	JHP0895	hypothetical protein					-2.7	-1.1
HPAG1_0888	HP0906	JHP0842	hypothetical protein		NOG43410			-3.2	1.9
HPAG1_0897	HP0914	JHP0850	outer membrane protein HopG	hopG				3.2	1.2
HPAG1_0979	HP0415	JHP0969	conserved hypothetical integral membrane protein		COG0668	M		3.2	1.1
HPAG1_1025			hypothetical protein					2.4	1.2
HPAG1_1027	HP0367	JHP1014	hypothetical protein					-3.9	2.2
HPAG1_1093	HP1154	JHP1081	hypothetical protein		COG1699	S		-2.4	2.2
HPAG1_1094	HP1155	JHP1082	UDP-N-acetylglucosamine lipid transferase	murG	COG0707	M	2.4.1.227	-2.8	3.5
HPAG1_1104	HP1165	JHP1092	tetracycline resistance protein tetA(P)		COG0477	G		3.4	-1.0
HPAG1_1113	HP1174	JHP1101	glucose/galactose transporter	gluP	COG0738	G		3.1	-1.4
HPAG1_1151	HP1209		iceA1	iceA1	NOG47905		3.1.21.4	3.1	1.3
HPAG1_1175	HP1233	JHP1154	hypothetical protein		NOG41927			-3.3	1.1
HPAG1_1193	HP1250	JHP1171	hypothetical protein					4.9	1.1
HPAG1_1220		JHP1197	hypothetical protein					-4.7	1.2
HPAG1_1227	HP1286	JHP1206	conserved hypothetical secreted protein		COG2353	S		-5.9	-2.3
HPAG1_1269	HP1324	JHP1244	hypothetical protein					-2.6	1.1
HPAG1_1270	HP1325	JHP1245	fumerase	fumC	COG0114	C	4.2.1.2	-3.0	-1.0
HPAG1_1284	HP1337	JHP1256	nicotinate-nucleotide adenyltransferase	nadD	COG1057	H	2.7.7.18	-3.5	-1.0
HPAG1_1326	HP1380	JHP1294	perphenate dehydrogenase	tyrA	COG0287	E	1.3.1.12	-2.9	-1.2
HPAG1_1366	HP1440	JHP1333	hypothetical protein		NOG39578			2.8	-1.6
HPAG1_1385	HP1531	JHP1419	hypothetical protein		NOG40348			-3.6	2.6
HPAG1_1388	HP1527	JHP1416	periplasmic competence protein	comH				-2.3	-1.0
HPAG1_1425	HP1488	JHP1381	conserved hypothetical secreted protein		COG0845	M		-2.4	1.8
HPAG1_1483	HP1385	JHP1440	fructose-1,6-bisphosphatase	fbp	COG0158	G	3.1.3.11	-2.7	1.1

\*Cluster of Orthologous Groups

\*\*Non-supervised Orthologous Group

†Enzyme Commission