

**Table 2. Summary of all potential sensors found in KT71**

#	ORF	Contig	Gene name	Annotation
1	KT71_00145	1		two-component response regulator
	KT71_00150	1		sensory box/GGDEF family protein
2	KT71_00175	1		two-component system sensor histidine kinase
	KT71_00180	1		two-component system response regulator
3	KT71_00675	1		transcriptional regulatory protein
	KT71_00680	1		sensor protein
4	KT71_03582	1	oxyR	Bacterial regulatory protein, LysR-type hydrogen peroxide inducible
5	KT71_04270	1		two-component system sensor histidine kinase
	KT71_04275	1		two-component system response regulator
6	KT71_04735	1	oxyR	Bacterial regulatory protein, LysR-type hydrogen peroxide inducible
7	KT71_05972	1		two-component system response regulator
	KT71_05977	1		two-component system sensor protein
8	KT71_05987	1		two-component system sensor histidine kinase
	KT71_05992	1		two-component system response regulator
9	KT71_06409	1		two-component system sensor histidine kinase
	KT71_06419	1		two-component system response regulator
10	KT71_06529	1		Fe <sup>2+</sup> -dicitrate sensor, membrane component
	KT71_06539	1		transcriptional regulator (AraC family)
11	KT71_06949	1		sensory box/GGDEF family protein
12	KT71_07079	1		two-component system, sensor protein
	KT71_07084	1		two-component system response regulator
13	KT71_07694	1		two-component hybrid sensor and regulator
14	KT71_08064	1		two-component system response regulator
	KT71_08069	1		two-component system sensor histidine kinase
15	KT71_08847	1		two-component system sensor histidine kinase
	KT71_08852	1		two-component system response regulator
16	KT71_09237	1		two-component system response regulator
	KT71_09242	1		two-component system sensor histidine kinase
17	KT71_09297	1		sensory box/GGDEF family protein
18	KT71_09447	1		BLUF (Sensor of blue-light using FAD) domain protein
	KT71_09452	1		two-component system response regulator
19	KT71_09457	1		two-component system response regulator
	KT71_09462	1		two-component system sensor histidine kinase
20	KT71_09467	1		sensory box/GGDEF family protein
21	KT71_09742	1		two-component system response regulator
	KT71_09747	1		two-component system sensor histidine kinase
22	KT71_12990	2		two-component system sensor histidine kinase
	KT71_12995	2		two component system response regulator
23	KT71_14029	2		sensory box PAS/GGDEF/EAL domain protein
24	KT71_14254	2		sensory box/GGDEF family protein
25	KT71_14414	2		sensory box GGDEF/EAL domain protein
26	KT71_16521	2	phoR	Phosphate regulon sensor protein phoR
	KT71_16526	2	phoB	Phosphate regulon transcriptional regulatory protein phoB
27	KT71_16971	2		sensory box GGDEF/EAL domain protein
	KT71_16991-17006	2	fixNOQP	cbb3-type cytochrome c oxidase, oxygen sensor

28	KT71_17306	2		two-component response regulator
	KT71_17311	2		two-component system sensor histidine kinase
29	KT71_17611	2		two-component response regulator
	KT71_17616	2		two-component sensor histidine kinase
30	KT71_17761	2		heavy metal sensor kinase
	KT71_17766	2		heavy metal response regulator
31	KT71_18132	2		two-component response regulator
	KT71_18137	2		two-component system sensor histidine kinase
32	KT71_18361	2		sensory box EAL/GGDEF family protein
33	KT71_18366	2		sensory box EAL/GGDEF family protein
34	KT71_18916	2		sensory box/GGDEF/EAL family protein
35	KT71_19323	2		BLUF (Sensor of blue-light using FAD) domain protein
36	KT71_19657	2	pilS	sensor protein PilS
	KT71_19662	2	pilR	type 4 fimbriae expression regulatory protein

Grey shading indicate neighboring genes and coding for composite sensors, e.g., two-component systems.

### TonB-dependent receptor systems

#	ORF	Contig	Gene name	Annotation
1	KT71_02412	1		TonB-dependent receptor
2	KT71_03955	1		TonB-dependent receptor
3	KT71_05287	1		TonB-dependent receptor
4	KT71_05507	1		TonB-dependent receptor
5	KT71_06242	1		TonB-dependent receptor
6	KT71_06524	1		TonB-dependent receptor
7	KT71_07399	1		TonB-dependent receptor
8	KT71_07529	1		TonB-dependent receptor
9	KT71_07714	1		TonB-dependent receptor
10	KT71_07799	1		TonB-dependent receptor
11	KT71_07804	1		TonB-dependent receptor
12	KT71_08400	1		TonB-dependent receptor
13	KT71_11054	1		TonB-dependent receptor
14	KT71_12215	1		TonB-dependent receptor
15	KT71_12345	1		TonB-dependent receptor
16	KT71_12945	1		TonB-dependent receptor
17	KT71_13110	2		TonB-dependent receptor
18	KT71_13614	2		TonB-dependent receptor
19	KT71_14239	2		TonB-dependent receptor
20	KT71_14434	2		TonB-dependent receptor
21	KT71_15264	2		TonB-dependent receptor
22	KT71_16836	2		TonB-dependent receptor
23	KT71_17391	2	btuB	TonB-dependent receptor Vitamin B12 transporter btuB
24	KT71_17421	2		TonB-dependent receptor
25	KT71_18501	2		TonB-dependent receptor
26	KT71_18621	2	btuB	TonB-dependent receptor Vitamin B12 transporter btuB
27	KT71_18921	2		TonB-dependent receptor