

Supplementary Tables for

Transcriptomic Changes and *satP* Gene Function Analysis in

***Pasteurella multocida* with Different Levels of Resistance to**

Enrofloxacin

Supplementary Table S1. Primer sequence.

Primer name	sequence (5'→3')
	F: CGTCTAGAACCATGAGCGAGATCTTTGATATT
UP	R: ATCAAAAGATGGTGCGAAAAAATAAGATAAC
DOWN	F: TTTTCGCACCATCTTTTGATGATGACAT
	R: TAGAGCTCTGTTTCATCAGCGCTGCGGTA

Supplementary Table S2. The quality analysis of total RNA in *Pm*.

Sample name	OD26 0/280	OD26 0 /230	Sample name	OD26 0 /230	OD26 0 /230	Sample name	OD26 0 /280	OD260 /230
PMS	2.19	2.30	PMR	2.12	2.20	PMHR	2.18	1.77
PMS	2.17	2.32	PMR	2.16	2.16	PMHR	2.18	2.04
PMS	2.17	2.31	PMR	2.19	2.19	PMHR	2.20	1.98

Supplementary Table S3. Statistical results of trimmed reads mapping with reference genome.

Sample	Before Filter				After Filter			
	Clean Data(bp)	Q20 (%)	Q30 (%)	GC (%)	HQ Clean Data(bp)	Q20 (%)	Q30 (%)	GC (%)
PMS-1	2321207700	97.56	93.45	43.30	2159560579	98.44	94.65	42.69
PMS-2	1897499100	97.54	93.38	43.49	1768955797	98.39	94.52	42.87
PMS-3	1910560200	97.72	93.67	43.31	1789862837	98.46	94.68	42.76
PMR-1	2298293700	98.06	94.81	43.92	2126675340	98.92	96.01	43.32
PMR-2	2337310800	97.95	94.68	43.64	2161900037	98.90	95.97	43.04
PMR-3	2141400600	97.97	94.54	43.79	1985325044	98.82	95.71	43.15
PMHR-1	2411388900	98.09	94.70	43.17	2247057575	98.81	95.72	42.48
PMHR-2	2161450500	97.89	94.29	43.21	2013130234	98.67	95.37	42.54
PM-HR-3	1878329400	97.97	94.48	43.07	1750311733	98.74	95.54	42.40

Supplementary Table S4. The Statistics of functional annotation.

	GO	KEGG
S-vs-R	187	73
R-vs-HR	189	76
S-vs-HR	248	66

Supplementary Table S5. The results of top GO.

GO ID	FUNCTION	GO ID	FUNCTION	GO ID	FUNCTION
N					
GO:004442 5	Membrane	GO:004322 9	Intracellular organelles	GO:003125 2	Cellular front
GO:003122 4	Inherent composition of membrane	GO:003017 6	Intracellular organelles	GO:000830 5	Complex integrin
GO:009868 7	Chromosome region	GO:004442 4	Intracellular r	GO:003130 1	Membrane component
GO:003109 0	Organelle membrane	GO:004322 8	Unbounded organelle	GO:009863 6	Adhesion protein
GO:009745 8	Neuronal part	GO:004323 2	Intracellular organelles	GO:001645 9	Myosin
GO:009885 8	Cell projection	GO:004329 2	Shrinkage fibre	GO:003017 5	Dendrite
GO:004442 7	Chromosome part	GO:004299 5	Cell projection	GO:004322 7	Intra- boundary organelles
GO:004429 7	Cell body	GO:000562 2	Intracellular r	GO:004445 0	Microtubule tissue
GO:003198 4	Organelle region	GO:001602 1	Membrane component	GO:000078 1	Chromosome telomeres
GO:003042 4	Axon	GO:004300 5	Neuronal projection	GO:009879 6	Membrane protein
GO:003326 7	Axonal part	GO:004322 6	Organelle	GO:003122 7	Endoplasmic reticulum part

Supplementary Table S6. LD₅₀ test results of *PmS* and ΔPmS .

	Number of Bacteria animals /n	Dosage administered / (CFU/mL)	Dose logarithm /x	Number of dead animals /r	Mortality rate/p	Survival rate/q	pq
<i>PmS</i>	10	10 ⁵	5	0	0	1	0
<i>PmS</i>	10	3×10 ⁵	5.5	0	0	1	0
<i>PmS</i>	10	10 ⁶	6	4	0.4	0.6	0.24
<i>PmS</i>	10	3×10 ⁶	6.5	6	0.6	0.4	0.24
<i>PmS</i>	10	10 ⁷	7	10	1	0	0
ΔPmS	10	10 ⁹	9	0	0	1	0
ΔPmS	10	3×10 ⁹	9.5	0	0	1	0
ΔPmS	10	10 ¹⁰	10	8	0.8	0.2	0.16
ΔPmS	10	3×10 ¹⁰	10.5	10	1	0	0
ΔPmS	10	10 ¹¹	11	10	1	0	0