

Suppl. Table 7. *Haloferax volcanii* pHv3 base substitution and inserion-deletion (indel) summary statistics

MA Line	Substitutions											Indels						Total sites	Gen.	Base- sub Rate	Indel Rate
	Transitions						Transversions					Ins.	Del.								
	GC>AT	AT>GC	AT>TA	GC>TA	AT>CG	GC>CG															
Hv1	1	1E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3384	0	0	
Hv2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3456	0	0	
Hv4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3456	0	0	
Hv5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3456	0	0	
Hv7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3072	0	0	
Hv8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3384	0	0	
Hv16	1	1E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3504	0	0	
Hv17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3528	0	0	
Hv18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3312	0	0	
Hv19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3288	0	0	
Hv20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3168	0	0	
Hv21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3096	0	0	
Hv22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	2832	0	0	
Hv23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3240	0	0	
Hv25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4E+05	3360	0	0	
Hv26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3360	0	0	
Hv29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3168	0	0	
Hv30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3360	0	0	
Hv32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3312	0	0	
Hv33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3240	0	0	
Hv34	0	0	0	0	1	2E-09	1	1E-09	0	0	0	0	0	0	0	0	3E+05	3336	0	0	
Hv35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3288	0	0	
Hv41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3216	0	0	
Hv42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3192	0	0	
Hv43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3360	0	0	
Hv44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	2904	0	0	
Hv45	1	1E-09	1	3E-09	0	0	1	1E-09	0	0	0	0	0	0	0	0	3E+05	3120	0	0	
Hv46	0	0	0	0	0	0	1	1E-09	0	0	0	0	0	0	0	0	3E+05	3288	0	0	
Hv47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3408	0	0	
Hv48	0	0	1	2E-09	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3312	0	0	
Hv49	0	0	1	2E-09	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3336	0	0	
Hv50	1	1E-09	0	0	0	0	1	1E-09	0	0	0	0	0	0	0	0	3E+05	3408	0	0	
Hv51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3288	0	0	
Hv52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4E+05	3600	0	0	
Hv53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3456	0	0	
Hv54	1	1E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3528	0	0	
Hv65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3384	0	0	
Hv66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3336	0	0	
Hv67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3168	0	0	

Hv68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3216	0	0
Hv69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3336	0	0
Hv73	1	1E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3096	0	0
Hv74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3192	0	0
Hv75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3192	0	0
Hv76	0	0	0	0	0	0	1	1E-09	0	0	0	0	0	0	0	0	3E+05	3168	0	0
Hv77	2	3E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3144	0	0
Hv79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3168	0	0
Hv80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3000	0	0
Hv85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4E+05	3096	0	0
Hv86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3096	0	0
Hv87	1	1E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3312	0	0
Hv88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3432	0	0
Hv90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3144	0	0
Hv98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3E+05	3312	0	0
	9		3		1		5		0		0		0		0					
Overall mut	2E-10			1E-10		5E-11		1E-10		0		0		0		0			0	0
lower limit	1E-10			3E-11		1E-12		4E-11		0		0		0		0			0	0
upper limit	4E-10			4E-10		3E-10		3E-10		0		0		0		0			0	0
SEM*	8E-11			8E-11		4E-11		6E-11		0		0		0		0			0	0

\* SEM is the standart error.