

Table S1: Genome assembly statistics. Genome assembly statistics and accession numbers for Payload Hazardous Servicing Facility (PHSF)-originating *A. johnsonii* isolates (n=22) and E154408A strain. PHSF-originating isolates were collected during (2P) the assembly and testing operations of the NASA Mars Rover Phoenix (n=5) and after (3P) removal of Phoenix to the launch pad (n=17).

Strain:	NCBI Accession no.	Size (bp)	N50 (bp)	Average coverage depth	Complete- ness (%)	Contamination (%)
E154408A	SAMN46228034	3709062	54357	66x	100	0.58
2P07AA	SAMN42050747	3835271	3565610	181x	100	0.04
2P07AC	SAMN42050748	3760543	3571220	324x	100	0.04
2P07AD	SAMN42050749	3675217	3573361	498x	100	0.04
2P08AA	SAMN42050750	3749044	3571149	696x	100	0.04
2P08AD	SAMN42050751	4035222	3456292	329x	100	0.53
3P2-tot-A	SAMN42050733	3798362	3570666	639x	100	0.04
3P2-tot-A-2	SAMN42050753	3746945	3569924	644x	100	0.04
3P2-tot-C	SAMN42050734	3770470	2536782	555x	100	0.13
3P4-tot-B	SAMN42050754	3771679	3127532	337x	100	0.04
3P4-tot-C	SAMN42050735	3728045	3533349	228x	100	0.04
3P5-tot-B	SAMN42050736	3764845	3538698	595x	100	0.04
3P6-tot-B	SAMN42050737	3777034	2854787	314x	100	0.13
3P6-tot-E	SAMN42050738	3846112	3570778	522x	100	0.04
3P8-tot-A	SAMN42050739	3784423	3566410	329x	100	0.04
3P8-tot-B	SAMN42050740	3750414	2316933	340x	100	0.13
3P9-tot-A-2	SAMN42050752	3787483	2268578	647x	100	0.13
3P02AA	SAMN42050741	3892883	3586310	749x	100	0.04

3P04AE	SAMN42050742	3788214	3572689	291x	100	0.31
3P06AB	SAMN42050743	3863336	3582743	361x	100	0.04
3P06AC	SAMN42050744	3805083	796935	174x	100	0.13
3P06AD	SAMN42050745	3851397	3570286	308x	100	0.04
3P09AC	SAMN42050746	3779708	3587631	760x	100	0.04