

Table S2. Mutations in evolved adenosine growth variants as compared to the parent strain PAO1.

^a Adenosine growth variants described in Table 1.

^b Genomic location of the mutation start and stop, reference sequence, and gene locus tag/name according to Pseudomonas.com.

^{c-h} Mutation identified by StrandNGS version 2.9 SNP Detection and SNP Effect Analysis using default parameters. SNPs present in >90% of reads, excluding synonymous changes, are presented here.

Variant allele call was determined by the percent of reads at the indicated locus that differ from the published PAO1 sequence. SNP detection threshold was set to a minimum of 10 reads per locus for consideration.

Variant A ^a										
Start ^b	End ^b	Reference ^b	Variant Allele ^c	Variant Type ^d	Gene Symbol ^b	Consequence ^e	Position in cDNA ^f	Position in Protein ^g	Amino Acid Change ^h	
113827	113827	C	T	Substitution	PA0093	Non-synonymous	769-769	257-257	A->T	
163308	163308	C	T	Substitution		Intergenic				
259508	259508	A	G	Substitution	pcaT	Non-synonymous	1046-1046	349-349	Y->C	
303356	303356	A	G	Substitution	PA0267	Non-synonymous	533-533	178-178	E->G	
545860	545860	A	G	Substitution		Intergenic				
595070	595070	A	G	Substitution	PA0535	Non-synonymous	491-491	164-164	H->R	
604691	604691	A	G	Substitution	metK	Non-synonymous	206-206	69-69	G->P	
640628	640628	A	G	Substitution	PA0581	Non-synonymous	362-362	121-121	L->P	
699304	699304	C	T	Substitution		Intergenic				
923077	923077	T	C	Substitution	PA0845	Non-synonymous	728-728	243-243	N->S	
950377	950377	A	G	Substitution	pbpG	Non-synonymous	272-272	91-91	I->T	
1014333	1014333	C	T	Substitution	gacS	Non-synonymous	1420-1420	474-474	G->S	
1085710	1085710	C	T	Substitution	phnB	Non-synonymous	169-169	57-57	P->S	
1153625	1153625	A	G	Substitution		Intergenic				
1194861	1194861	C	T	Substitution	flgG	Early termination	655-655	219-219	Q->Stop	
1202170	1202170	A	G	Substitution	PA1110	Non-synonymous	635-635	212-212	L->P	
1240153	1240153	C	T	Substitution	PA1147	Non-synonymous	172-172	58-58	G->S	
1452387	1452387	A	G	Substitution	ggt	Non-synonymous	1006-1006	336-336	Y->H	
1485378	1485378	A	G	Substitution	PA1370	Non-synonymous	1481-1481	494-494	D->G	
1677877	1677877	A	AG	Insertion	PA1539	Frameshift	319-320			
1799968	1799968	T	C	Substitution	PA1652	Non-synonymous	584-584	195-195	V->A	
2043443	2043443	G	A	Substitution	PA1874	Non-synonymous	7003-7003	2335-2335	G->S	
2134424	2134424	C	T	Substitution	rrsR	Non-synonymous	32-32	43050	A->V	
2178500	2178500	A	G	Substitution	ercS	Non-synonymous	380-380	127-127	D->G	
2211750	2211750	A	G	Substitution	PA2019	Non-synonymous	763-763	255-255	Y->H	
2366367	2366367	A	G	Substitution	PA2151	Non-synonymous	262-262	88-88	S->G	
2411751	2411751	A	AC	Insertion	PA2192	Frameshift	43-44			
2621413	2621413	A	G	Substitution	PA2371	Non-synonymous	701-701	234-234	E->G	
2808355	2808355	T	C	Substitution	mexT	Non-synonymous	887-887	296-296	L->P	
2812077	2812077	G	A	Substitution	mexF	Non-synonymous	2069-2069	690-690	R->H	
2883502	2883502	T	C	Substitution	PA2551	Non-synonymous	346-346	116-116	F->L	
2902224	2902224	A	G	Substitution	PA2567	Non-synonymous	42923	42797	T->A	
3134097	3134097	G	A	Substitution	PA2776	Non-synonymous	388-388	130-130	A->T	
3409694	3409694	T	C	Substitution	PA3046	Non-synonymous	260-260	87-87	K->R	
3445522	3445522	T	C	Substitution	PA3073	Non-synonymous	287-287	96-96	V->A	
3469013	3469013	G	A	Substitution	PA3091	Non-synonymous	1415-1415	472-472	T->M	
3619006	3619006	T	C	Substitution	PA3232	Non-synonymous	614-614	205-205	K->R	
3727431	3727431	T	C	Substitution	PA3324	Non-synonymous	980-980	327-327	L->P	
3957397	3957397	C	T	Substitution	PA3535	Early termination	2491-2491	831-831	Q->Stop	
3974147	3974147	G	A	Substitution		Intergenic				
4056590	4056592	TGC	T	Deletion	mutS	Frameshift	2067-2068			
4056590	4056591	TG	T	Deletion	mutS	Frameshift	2067-2067			
4056591	4056592	GC	G	Deletion	mutS	Frameshift	2068-2068			
4363221	4363221	G	C	Substitution		Intergenic				
4583242	4583242	T	C	Substitution	PA4100	Non-synonymous	391-391	131-131	Y->H	
4623580	4623580	C	T	Substitution	PA4133	Non-synonymous	769-769	257-257	P->S	
4660228	4660228	G	A	Substitution	PA4164	Non-synonymous	42955	42797	R->Q	
4725345	4725345	T	C	Substitution	fptA	Non-synonymous	1457-1457	486-486	D->G	
4830052	4830052	G	A	Substitution	rcpC	Non-synonymous	503-503	168-168	P->L	
4926640	4926640	G	A	Substitution	PA4396	Non-synonymous	742-742	248-248	G->S	
5011330	5011330	G	GC	Insertion	mreC	Frameshift	984-985			
5026900	5026900	G	A	Substitution	PA4491	Non-synonymous	484-484	162-162	R->C	
5036675	5036675	A	AC	Insertion	PA4499	Frameshift	431-432			
5095955	5095955	T	C	Substitution	pilR	Non-synonymous	971-971	324-324	L->P	
5115713	5115713	G	A	Substitution	obg	Non-synonymous	178-178	60-60	R->C	
5351169	5351169	A	G	Substitution	recN	Non-synonymous	1241-1241	414-414	E->G	
5375556	5375556	C	T	Substitution		Intergenic				
5412277	5412277	A	G	Substitution		Intergenic				
5452051	5452051	G	A	Substitution		Intergenic				
5716803	5716803	A	G	Substitution	mdoH	Non-synonymous	53-53	18-18	L->P	
5756292	5756293	GC	G	Deletion		Intergenic				
5759063	5759063	A	G	Substitution	PA5114	Non-synonymous	2281-2281	761-761	F->L	
5897201	5897201	T	C	Substitution	PA5238	Non-synonymous	1594-1594	532-532	S->G	

Variant B ^a										
Start ^b	End ^b	Reference ^b	Variant Allele ^c	Variant Type ^d	Gene Symbol ^b	Consequence ^e	Position in cDNA ^f	Position in Protein ^g	Amino Acid Change ^h	
163308	163308	C	T	Substitution		Intergenic				
411125	411126	AC	A	Deletion		Intergenic				
2169348	2169348	A	AG	Insertion		Intergenic				
2809595	2809596	AC	A	Deletion	mexE	Frameshift	854-854			
5071543	5071544	AA	A	Deletion		Intergenic				
5655220	5655220	C	CCGG	Insertion	PA5024	Non-synonymous	665-666			

Variant C ^a										
Start ^b	End ^b	Reference ^b	Variant Allele ^c	Variant Type ^d	Gene Symbol ^b	Consequence ^e	Position in cDNA ^f	Position in Protein ^g	Amino Acid Change ^h	
No SNP present at 90% or greater frequency										

Variant D^a

Start ^b	End ^b	Reference ^b	Variant Allele ^c	Variant Type ^d	Gene Symbol ^b	Consequence ^g	Position in cDNA ^h	Position in Protein ⁱ	Amino Acid Change ^d
5036641	5036641	G	A	Substitution	PA4499	Non-synonymous	397-397	133-133	G->R

Variant E^a

Start ^b	End ^b	Reference ^b	Variant Allele ^c	Variant Type ^d	Gene Symbol ^b	Consequence ^g	Position in cDNA ^h	Position in Protein ⁱ	Amino Acid Change ^d
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No SNP present at 90% or greater frequency