

	10	20	30	40	50	60	70	80	90	100	
PA01	MALVDGFLELERSSGKLEWSAILQKMASDLGFSK--ILFGL--LPKDSQDYENAFIVGNYP--AAWREHYDRAGYARVDPTVS--HCTQS--VLPIFWE										
LASR001	.....									
LASR002	.....									
LASR003	.....									
LASR004	.....ITTTGLATR.ST.RSV..PRAY.RF.GNRPSTRR.										
LASR005	.....R.....										
LASR006	.....									
LASR007	.....									
LASR008	.....									
LASR009	.....									
LASR010	.....									
LASR011	.....R.....										
LASR012	.....LEDPVRPVAG--Q.GLRERLHRRQLP.RLA--R.L.PGWL...RPDGQSLYP--ER.AD--F.GTVHL										
LASR013	.....									
LASR014	.....									
LASR015	.....									
LASR016	.....									
LASR017	.....									
LASR018	.....									
LASR019	.....									
LASR020	.....									
LASR021	.....									
LASR022	.....ILG--Q.GLRERLHRRQLP.RLA--R.L.PGWL...RPDGQSLYP--ER.AD--F.GTVHL										
LASR023	.....N.....										
LASR024	.....									
LASR025	.....CC.RTARTTRTPSSSATTR.PG.SITTGLATR.ST.RSV..PRAY.RF.GNRPSTRR.										
LASR026	.....									
LASR027	.....									
LASR028	.....									
LASR029	.....									
LASR030	.....									
LASR031	.....V.....G.....										
LASR032	.....									
LASR033	.....									
LASR034	.....									
LASR035	.....									
LASR036	.....									
LASR037	.....C.....										
LASR038	.....									
LASR039	.....									
LASR040	.....									

	110	120	130	140	150	160	170	180	190	200
PA01	PSIYQTRKQHEFFEEASAAG	-----	LVYGLTMPLHGARGELGALSLSVEAENRAEAN	-----	RFMESVLPTLWMLKDYALQSGAGLAFEH	-----	PVSKPVVLTSR			
LASR001	-----	-----	-----
LASR002	-----I.....	-----	.....	-----	.....	.....	.....	.....
LASR003	-----	-----	-----
LASR004	S.TSSS..PRP--P.WCM.	-----	PCRCMVLAANS..	-----	.SAWKRKTGP.PTVS	-----	WSR.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG			
LASR005	-----	-----	-----
LASR006	-----	-----	-----
LASR007	-----	-----R--FMES.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG					
LASR008	-----R--PCRCMVLAANS..	-----	.SAWKRKTGP.PTVS	-----	WSR.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG			
LASR009	-----	-----RFMESVLPT.WM.KDYALQSGGT.LRTSGQQTGGSD--QPG					
LASR010	-----	-----	-----
LASR011	-----	-----	-----
LASR012	.DAKAA.VLRGSLGRR--P.	-----	VWADHAAAWCSR.TRRAEPQRGSCKPG.GQPFHGVGPADP.DAQGLRTAERCR-T.LRTSGQQTGGSD--QPG							
LASR013	-----SAA..VYGRCSR.TRRAEPQRGSCKPG.GQPFHGVGPADP.DAQGLRTAERCR-T.LRTSGQQTGGSD--QPG							
LASR014	-----LVY-GGPCRCMVLAANS..	-----	.SAWKRKTGP.PTVS	-----	WSR.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG			
LASR015	-----	-----	-----
LASR016	-----	-----	-----
LASR017	-----	-----	-----
LASR018	-----	-----	-----
LASR019	-----	-----	-----
LASR020	-----	-----	-----
LASR021	-----	-----	-----
LASR022	.DAKAA.VLRGSLGRR--P.	-----	VWADHAAAWCSR.TRRAEPQRGSCKPG.GQPFHGVGPADP.DAQGLRTAERCR-T.LRTSGQQTGGSD--QPG							
LASR023	-----	-----	-----
LASR024	-----	-----	-----
LASR025	S.TSSS..PRP--P.WCM.	-----	PCRCMVLAANS..	-----	.SAWKRKTGP.PTVS	-----	WSR.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG			
LASR026	-----	-----R-FMDADP.DAQGLRTAERCR-T.LRTSGQQTGGSD--QPG					
LASR027	-----	-----	-----
LASR028	-----LVYGLTMPCRCMVLAANS..	-----	.SAWKRKTGP.PTVS	-----	WSR.CR.CGCSRTTHCRAVPDWPS--NIR.ANRWFPAG			
LASR029	-----	-----	-----R.ANRWFPAG			
LASR030	-----	-----	-----
LASR031	-----	-----	-----
LASR032	-----	-----	-----W
LASR033	-----	-----	-----
LASR034	-----	-----	-----
LASR035	-----	-----	-----
LASR036	-----	-----	-----
LASR037	-----	-----	-----
LASR038	-----A-----VWADHAAAWCSR.TRRAEPQRGSCKPG.GQPFHGVGPADP.DAQGLRTAERCR-T.LRTSGQQTGGSD--QPG							
LASR039	-----	-----	-----
LASR040	-----	-----	-----

	210	220	230	240	250
PA01	EKEVLQWCAIGKTSWEISVICNCSEANVNFHMGNI	RRKFGVTSRRVA	AIMAVNLGLITL		
LASR001	.....	.....	.....	.....	.....
LASR002	.....	.....	.....	.....	.....
LASR003	.....	.....	.....	.....	C.....
LASR004	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR005	.....	.....	.....	.....	.....
LASR006	.....	.....	.....	.....	G.....
LASR007	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR008	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR009	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS.
LASR010	.....	.....	.....	.....	.....
LASR011	.....	.....	.....	.....	.....
LASR012	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS-
LASR013	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS.
LASR014	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR015	.....	.....	.....	.....	N.....
LASR016	.....	.....	.....	.....	V.G.....
LASR017	.....	.....	.....	V.....	.....
LASR018	.....	.....	.....	.....	.....
LASR019	..--EVLQWCAIGKTSWRYP--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR020	.....	.....	.....	.....	HYGRF.SYYS
LASR021	.....	.....	.....	R.....	.....
LASR022	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS-
LASR023	.....	.....	.....	.....	.....
LASR024	.....	.....	.....	.....	.....
LASR025	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR026	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS.
LASR027	.....	.....	.....	.....	SGHYGRFGSYYS-
LASR028	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR029	RR--KC.SGAPSARPVGRYR--LS.TARKP.TS.WEI.GS.VPP.RPLWP.IWVL.				
LASR030	.....	.....	.....	.....	.....
LASR031	.....	.....	.....	.....	.....
LASR032	.....	.....	.....	.....	.....
LASR033	.....	.....	.....	.....	YGRFGSYYS-
LASR034	.....	.....	.....	.....	.....
LASR035	.....	.....	.....	.....	Y.....
LASR036	.....	.....	.....	.....	W.....
LASR037	.....	.....	.....	.....	.....
LASR038	.GS.AVVRHRQDQLGD.GYLQ-LLGSQCELPY.KYSAEVRCDLPPRS				GHYGRFGSYYS.
LASR039	.....	.....	.....	.....	V.....
LASR040	.....	A.....	.....	.....	.....

Supplementary Figure 2. Sequence variation among the 40 *Pseudomonas aeruginosa* LasR amino acid sequences.