

Supplemental Table 1. Plasmids used in this study

Plasmid	Encoded protein	Source/reference
pBA174	Cyt-OmpC 50 in pBAD33, Cm ^R	Walsh et. al. 2003
pBAD33	Vector, pACYC ori, Para, Cm ^R	Guzman et. al. 1995
pFlag-MAC	Vector for cytoplasmic expression of Flag tagged proteins, pBR322 ori, Ap ^R	Sigma
pFlag-ATS	Vector for periplasmic expression of Flag-tagged proteins, pBR322 ori, Ap ^R	Sigma
pHisTrxRseA169-196	His-Trx-tagged RseA169-196 in pET28a	Kim et. al. 2007
pHisTrxRseA169-196 ^{I173A}	I173A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{N174A}	N174A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{M176A}	M176A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{L177A}	L177A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{Q178A}	Q178A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{D179A}	D179A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{Y180A}	Y180A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{E181A}	E181A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{L182A}	L182A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{Q183A}	Q183A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{R185A}	R185A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{L186A}	L186A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{H187A}	H187A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{S188A}	S188A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pHisTrxRseA169-196 ^{E189A}	E189A mutant of RseA169-196 peptide in pET28a, Ap ^R	This work
pLC234	His-tagged RseA periplasmic domain in pET28b, Kan ^R	De Las Penas et. al. 1997
pRseB-MAC	RseB ²⁴⁻³¹⁸ in pFlag-MAC, Ap ^R	This work
pRseB-MAC ^{R238A+R239A}	R238A+R239A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{D245A}	D245A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{N246A}	N246A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{I249A}	I249A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{E250A}	E250A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{D171A}	D171A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{D174A}	D174A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{D176A}	D176A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{E178A}	E178A in pRseB-MAC, Ap ^R	This work

pRseB-MAC ^{E181A}	E181A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{Q182A}	Q182A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{P248C}	P248C in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{S251C}	S251C in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{R252C}	R252C in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{V265C}	V265C in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{I249A+E250A}	I249A+E250A in pRseB-MAC, Ap ^R	This work
pRseB-MAC ^{D245A+N246A+I249A+E250A}	D245A+N246A+I249A+E250A in pRseB-MAC, Ap ^R	This work
pRseB-MAC _{R252A+L253A+Y254A+S255A+D256A+L258A}	R252A+L253A+Y254A+S255A+D256A+L258A in pRseB-MAC, Ap ^R	This work
pRseB ²¹⁸⁻³¹⁸ -MAC	RseB ²¹⁸⁻³¹⁸ in pFlag-MAC, Ap ^R	This work
pRseB-ATS	RseB ²⁴⁻³¹⁸ in pFlag-ATS, Ap ^R	This work
pRseB-ATS ^{R238A+R239A}	R238A+R239A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{D245A}	D245A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{N246A}	N246A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{I249A}	I249A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{E250A}	E250A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{D171A}	D171A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{D174A}	D174A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{D176A}	D176A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{E178A}	E178A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{E181A}	E181A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{Q182A}	Q182A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{I249A+E250A}	I249A+E250A in pRseB-ATS, Ap ^R	This work
pRseB-ATS ^{D245A+N246A+I249A+E250A}	D245A+N246A+I249A+E250A in pRseB-ATS, Ap ^R	This work
pRseB-ATS _{R252A+L253A+Y254A+S255A+D256A+L258A}	R252A+L253A+Y254A+S255A+D256A+L258A in pRseB-ATS, Ap ^R	This work
pTrc99a	Vector, pBR322 ori, Ap ^R	Amersham Pharmacia Biotech
pRseA-Trc ^{I173C}	I173C mutant of His-tagged RseA periplasmic domain in pTrc99A	This work
pRseA-Trc ^{D179C}	D179C mutant of His-tagged RseA periplasmic domain in pTrc99A	This work
pRseA-Trc ^{L186C}	L186C mutant of His-tagged RseA periplasmic domain in pTrc99A	This work
pRseA-Trc ^{H187C}	H187C mutant of His-tagged RseA periplasmic domain in pTrc99A	This work

Figure S1

