

Additional File 4

	70	80	90	100	110	120	130	140	150	160																																																																																													
<i>Streptomyces coelicolor</i> A3(2) ScbR	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
<i>Streptomyces lividans</i> TK24 ScbR	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
M132 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
505 ScbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
290 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
11 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
380 scbRrt1 Gottelt 1 HS	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
A3(2)N3 scbRrt1 Gottelt 5 HS	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
J1501 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
N1 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
13 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
210 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
CH999 scbRrt1	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	R	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
M600 scbR2	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	S	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
A3(2) (Eriko Norwich) scbRrt	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	S	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L
A3(2)N2 scbRrt1 Gottelt 3 HS	Q	A	V	P	E	Q	P	L	R	L	Q	E	L	I	D	M	G	M	L	F	C	H	R	L	R	T	N	V	V	A	R	A	G	V	R	L	S	M	D	Q	A	H	G	L	D	R	R	G	P	F	R	S	W	H	E	T	L	L	K	L	L	N	Q	A	K	E	N	G	E	L	L	P	H	V	V	T	T	D	S	A	D	L	Y	V	G	T	F	A	G	I	Q	V	V	S	Q	T	V	S	D	Y	Q	D	L