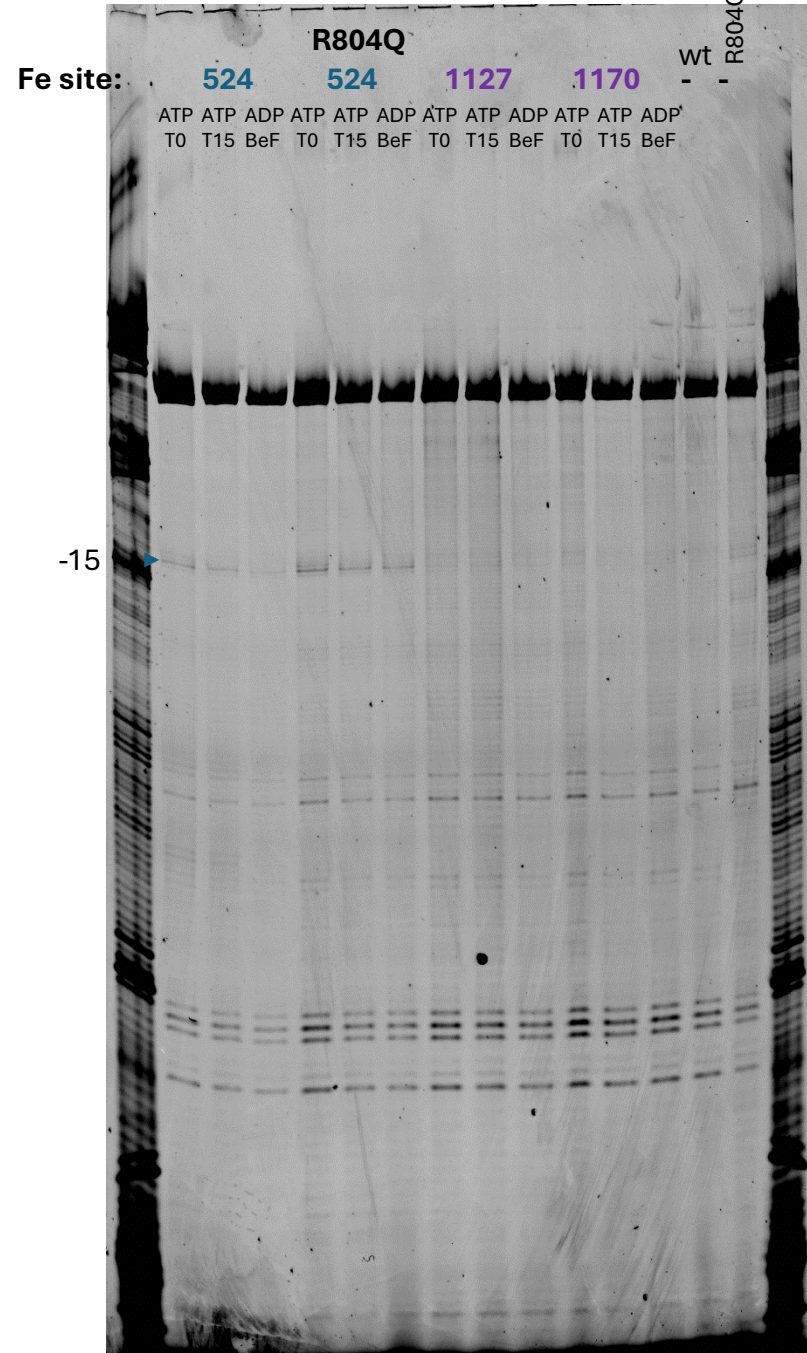
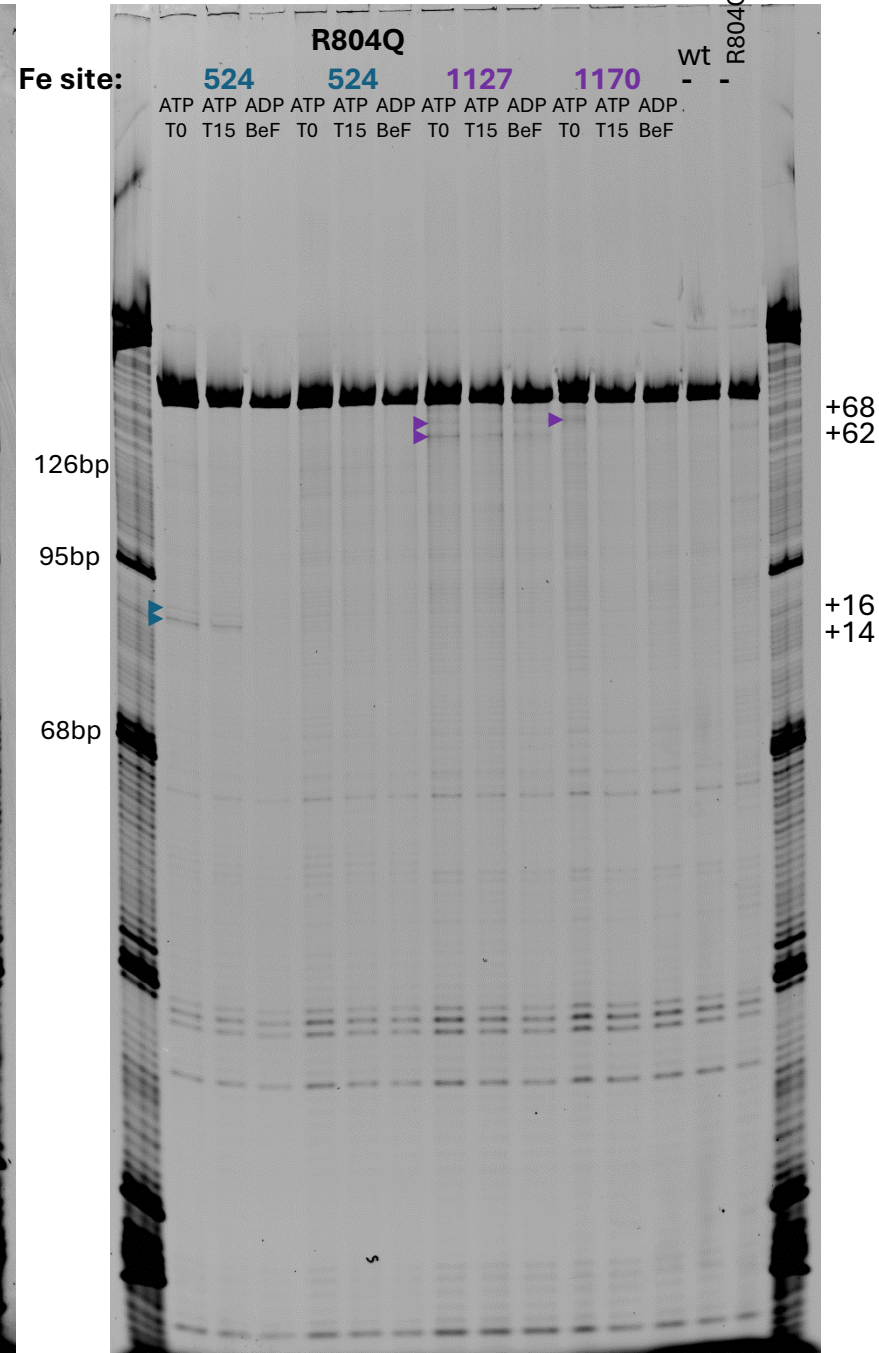
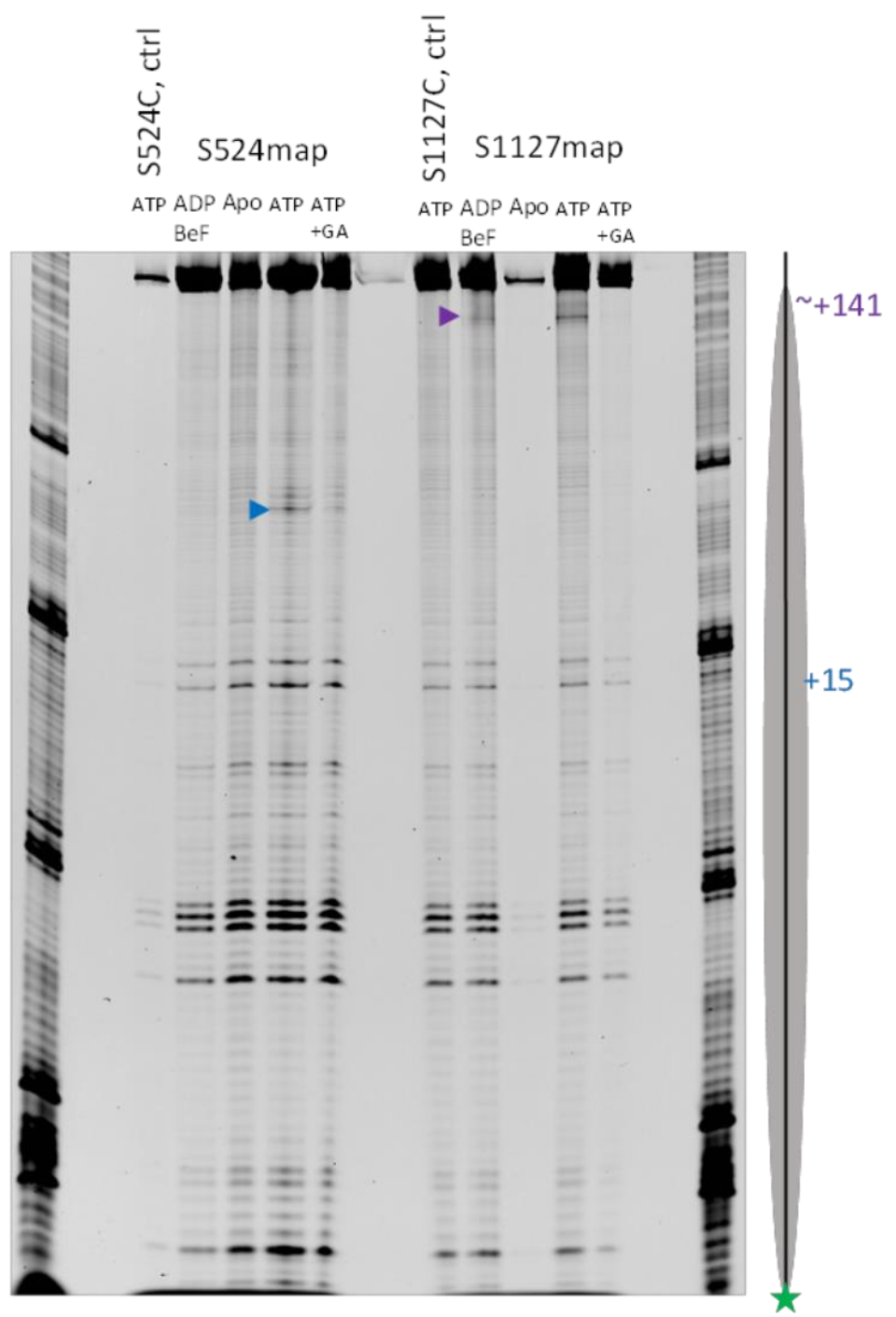
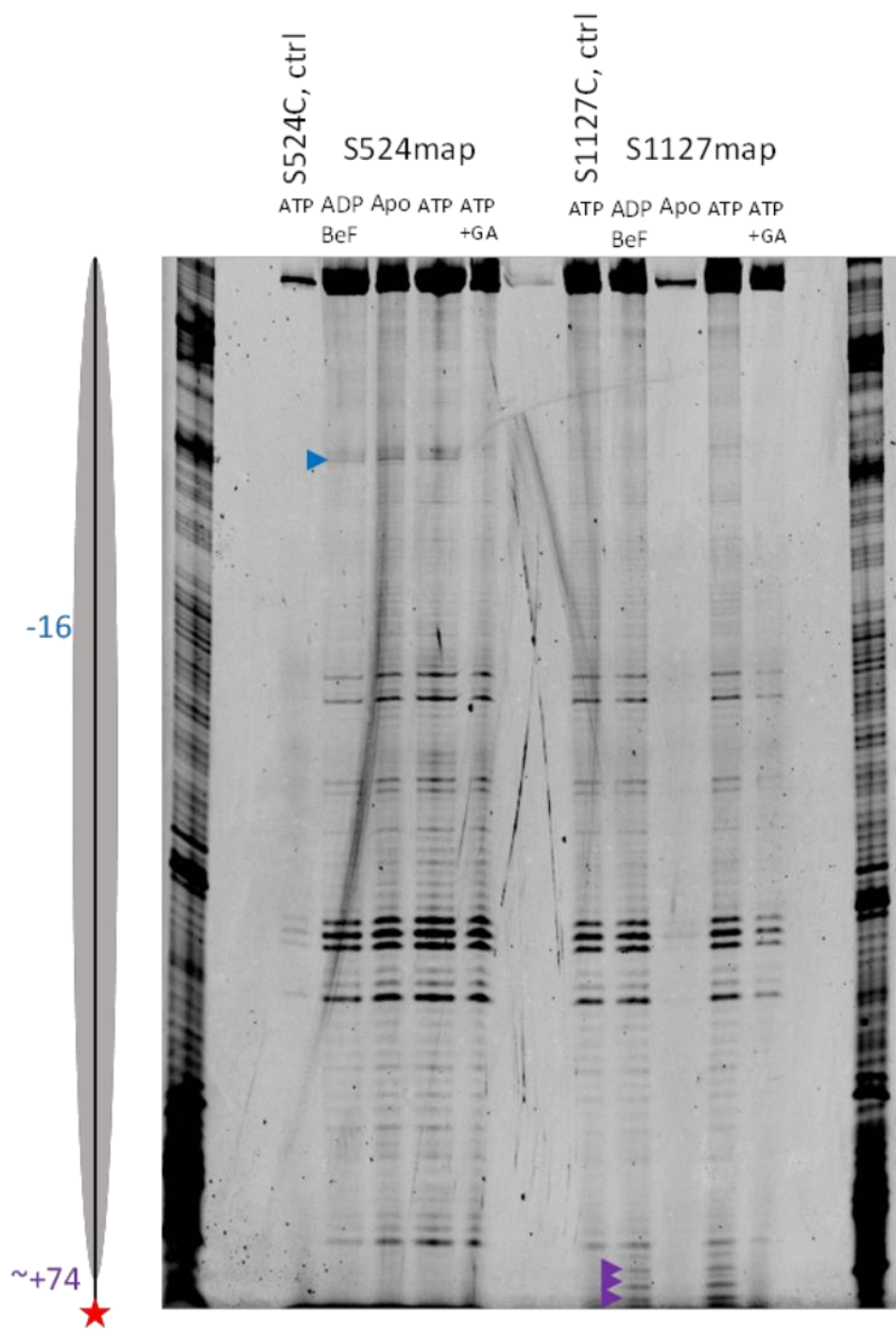


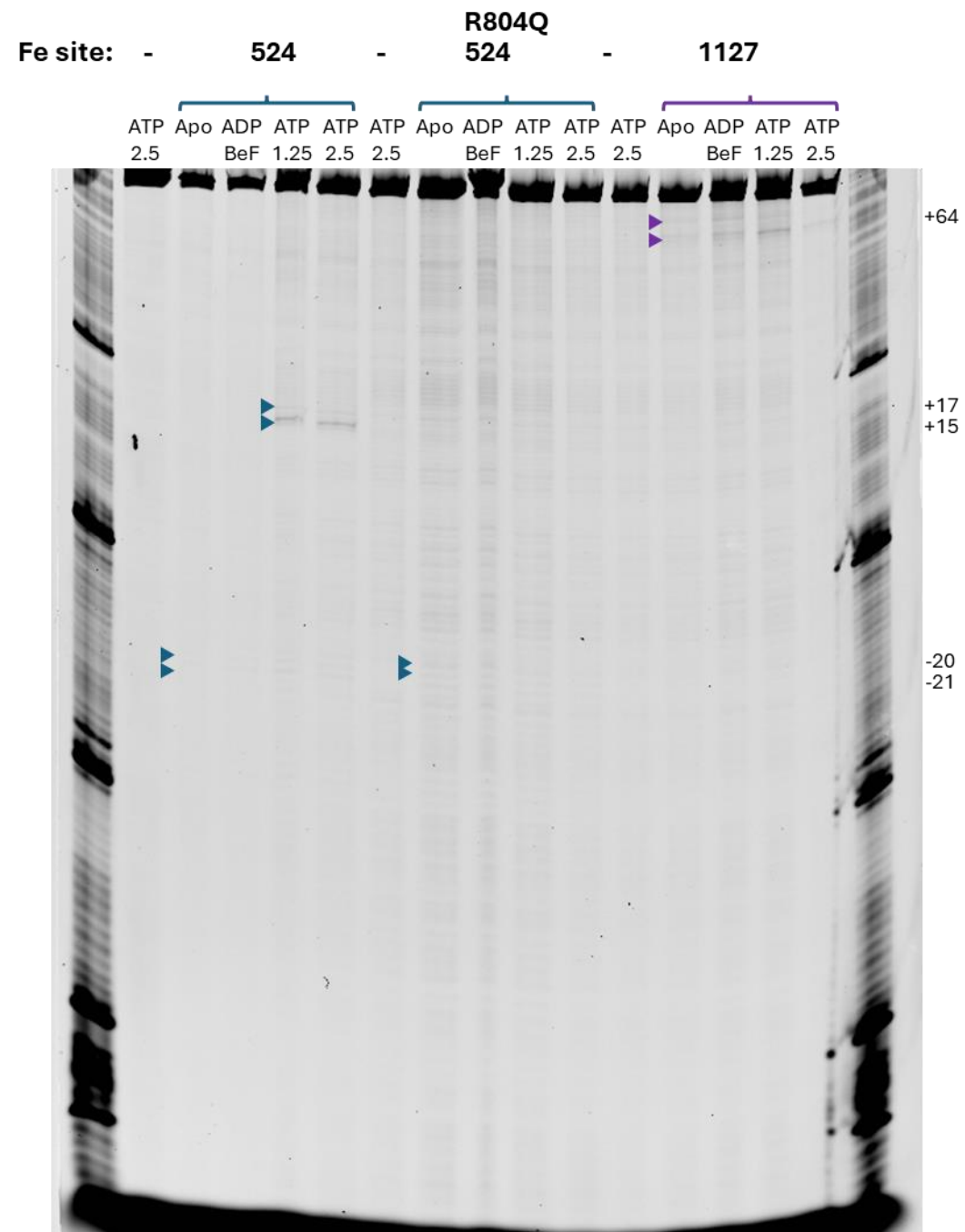
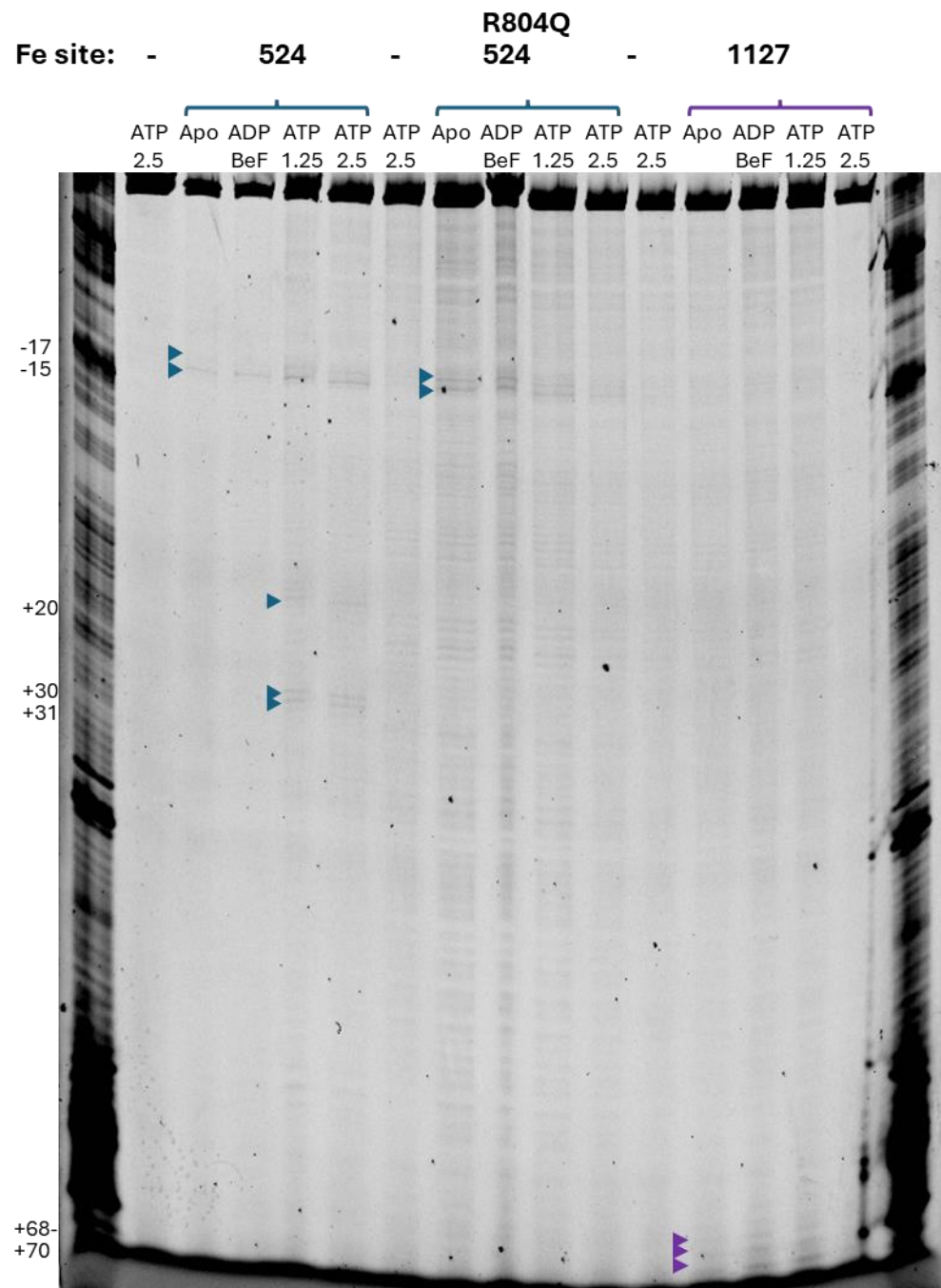
Bottom strand Cy3



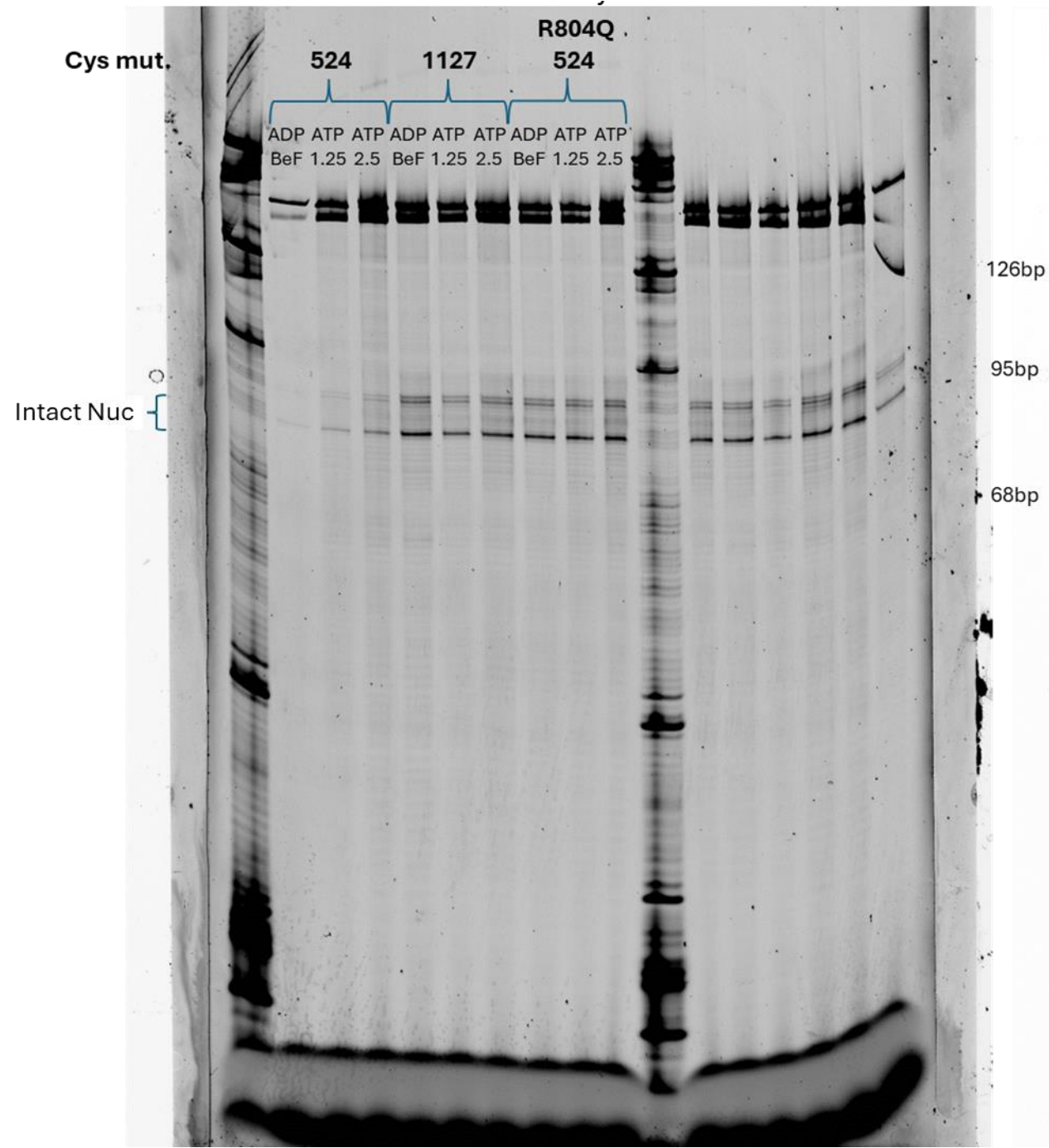
Top strand Cy5



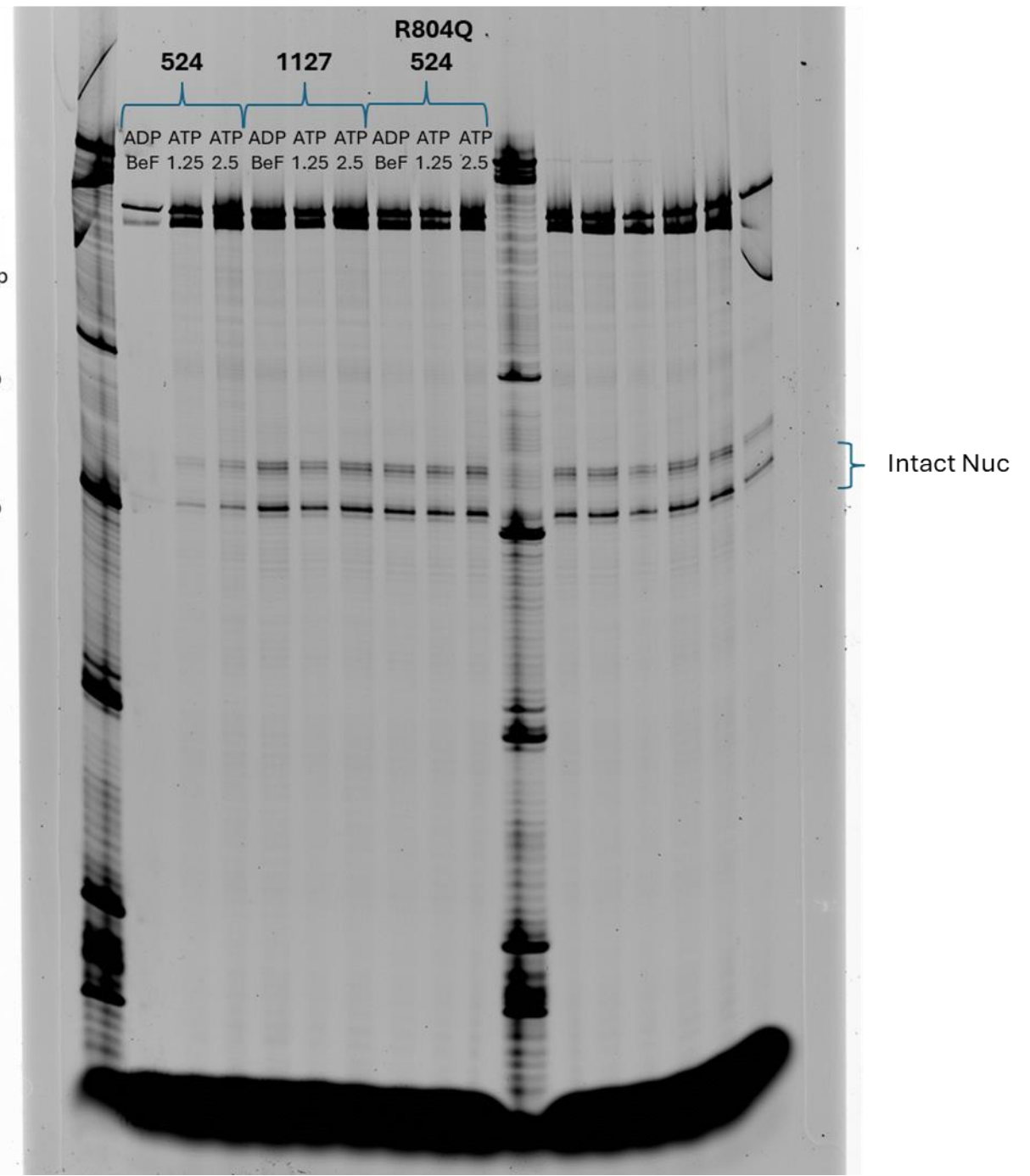




158 bp bottom strand Cy3

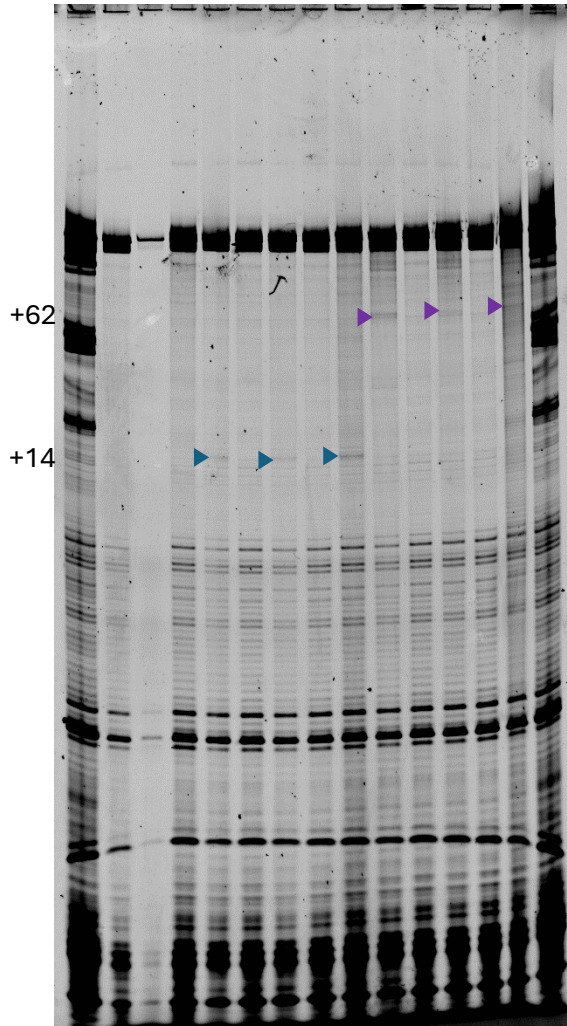


158 bp top strand Cy5



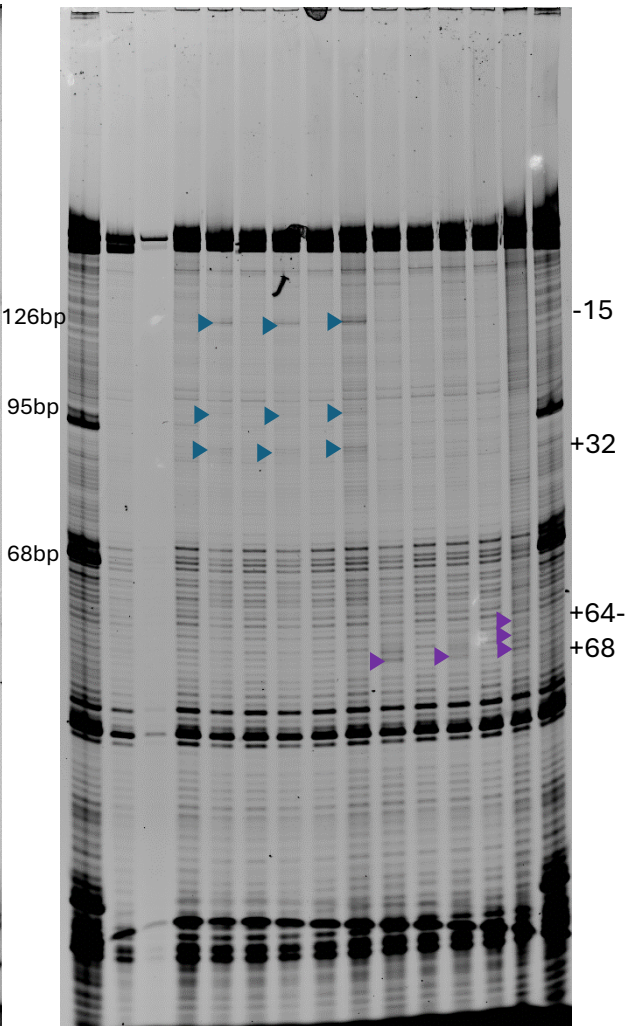
194 bp Top strand Cy3

Fe site:	-	524				1127			
ATP(10uM):	+	+	+	+	+	+	+	+	+
ADP-BeF(1.5uM):	-	-	-	-	-	-	-	-	-
Time (30C):	0	2	8	0	2	2	8	8	0
Mapping:	+	+	+	+	-	+	-	+	+



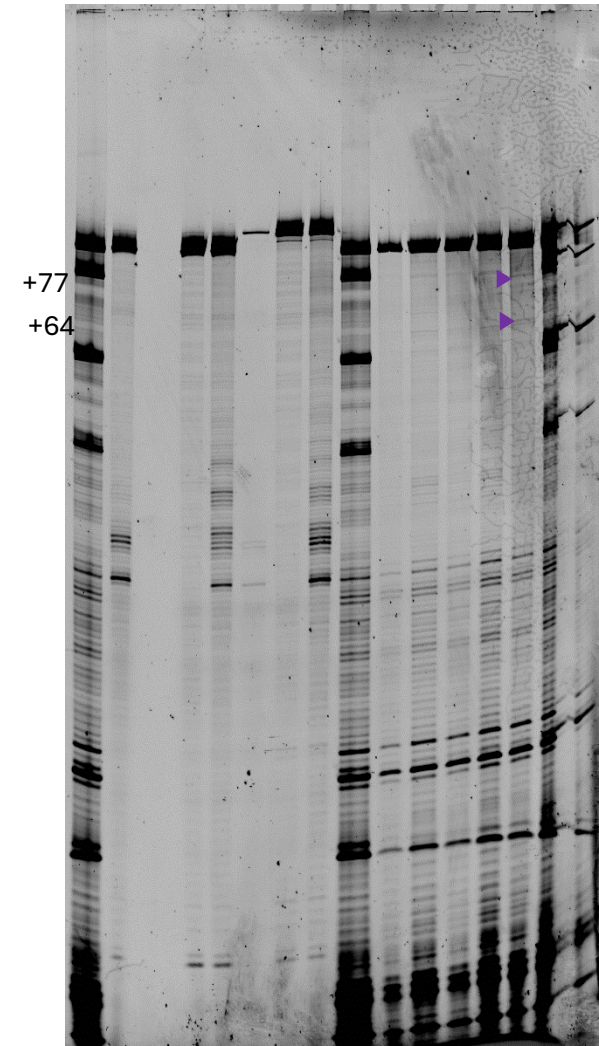
194 bp bottom strand cy5

	-	524				1127			
	+	+	+	+	+	+	+	+	+
	-	-	-	-	-	-	-	-	-
	0	2	8	0	2	2	8	8	0
	+	+	+	+	-	+	-	+	+



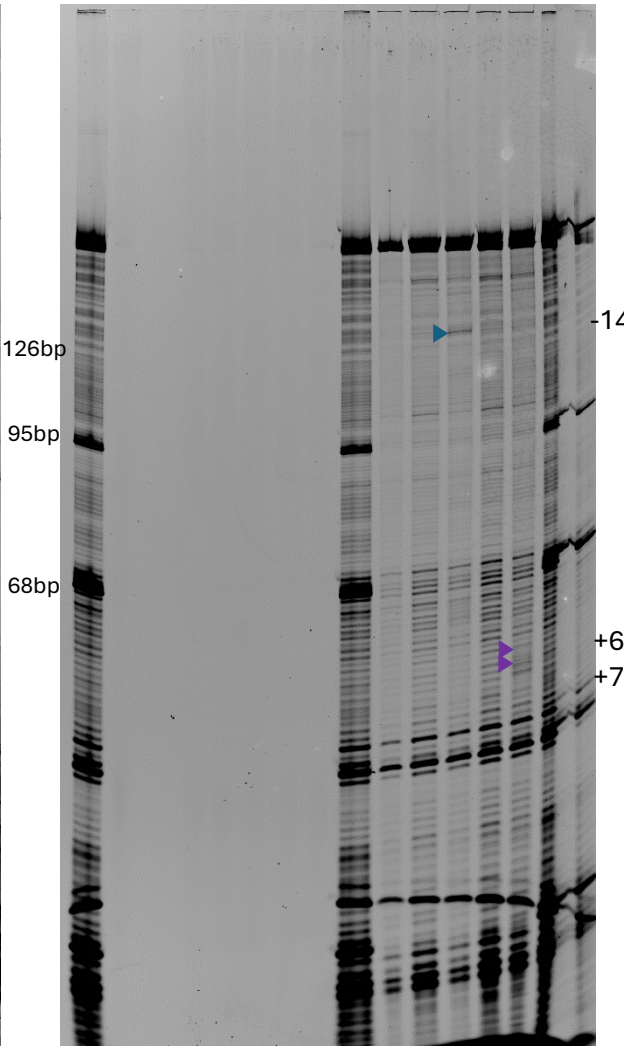
194 bp Top strand Cy3

	-	524	1127
	-	-	-
	+	+	+
	0	0	0
	+	-	+



194 bp bottom strand cy5

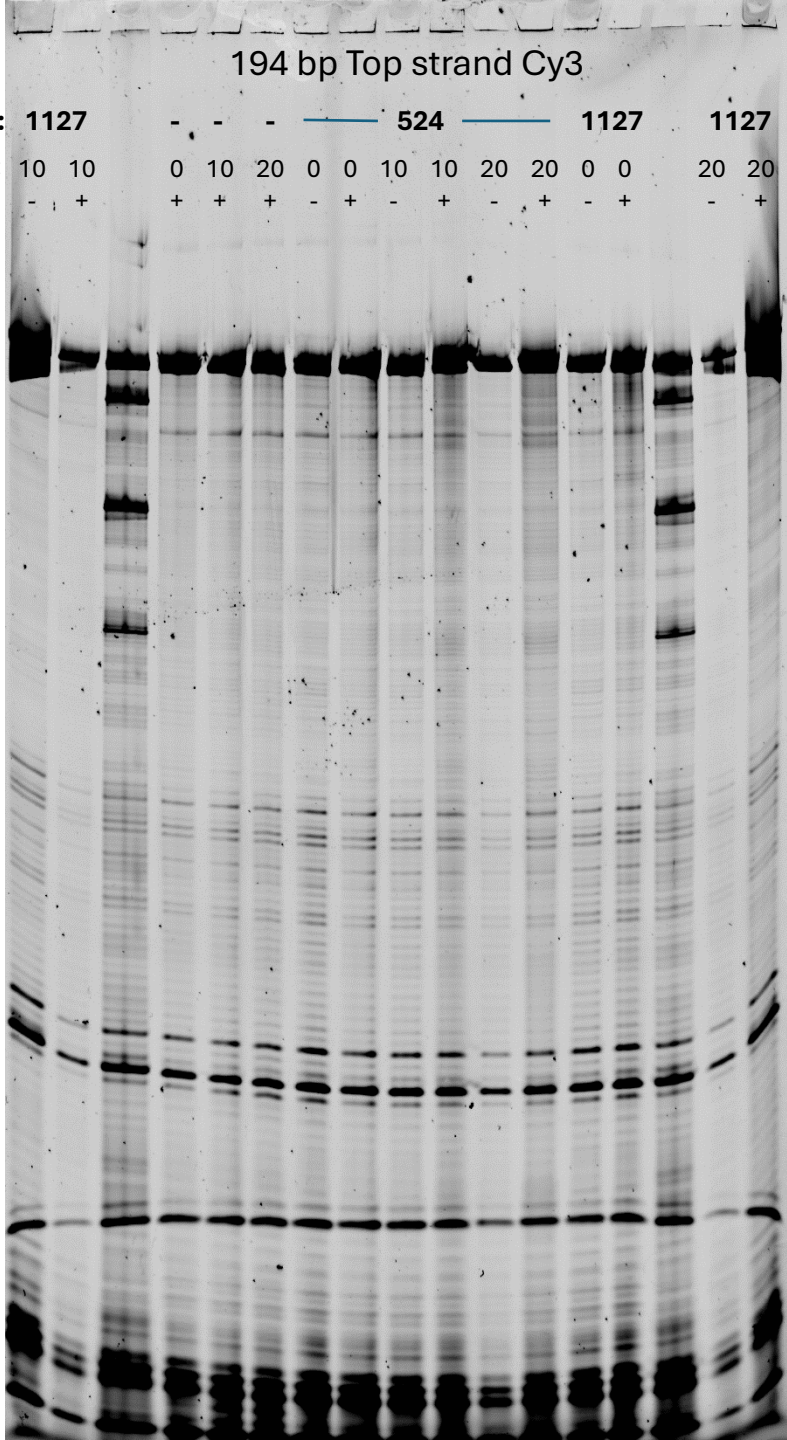
	-	524	1127
	-	-	-
	+	+	+
	0	0	0
	+	-	+



*1127 had R834Q mutation, as well as S221C

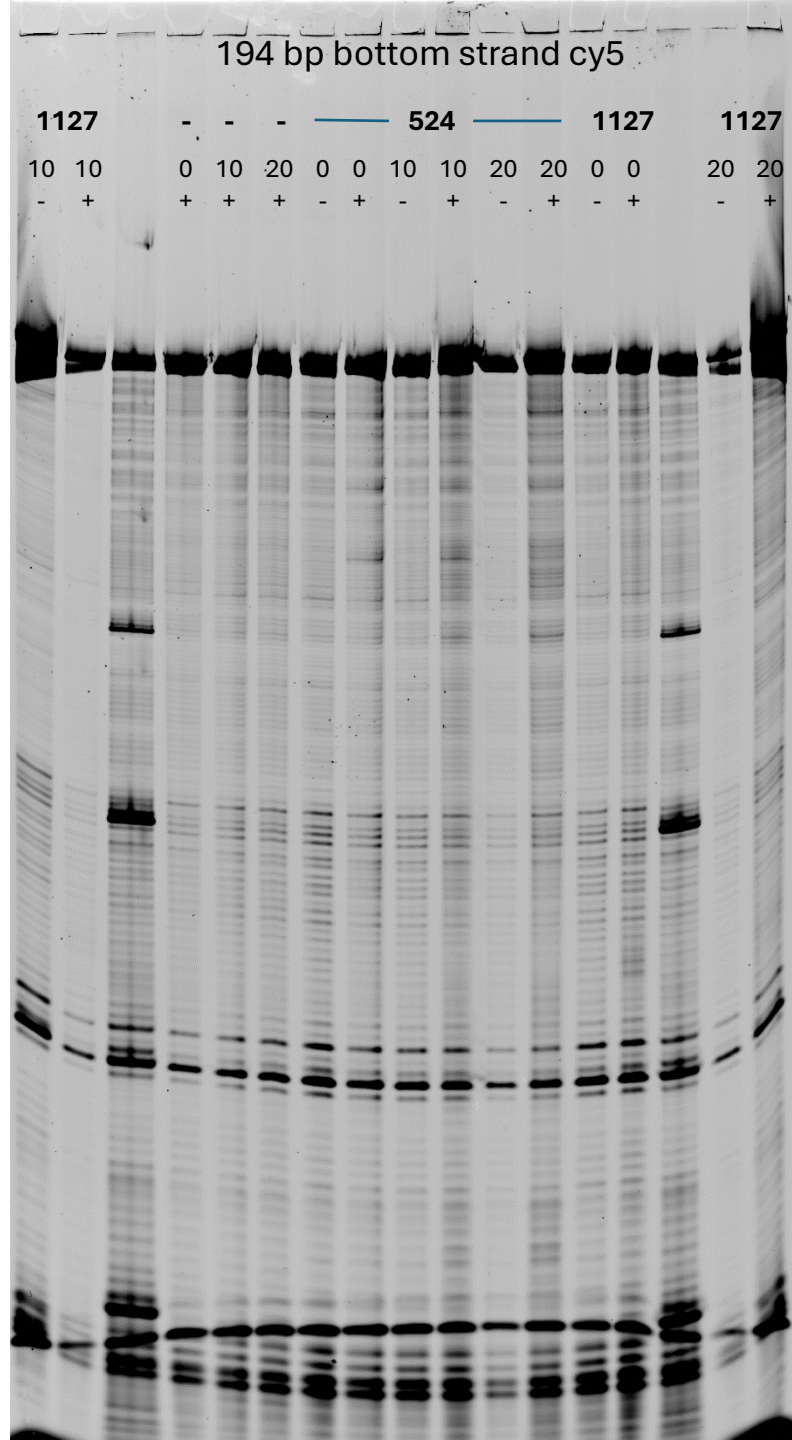
194 bp Top strand Cy3

Fe site:	1127	-	-	-	524	1127	1127								
Time:	10	10	0	10	20	0	0	10	10	20	20	0	0	20	20
Mapping:	-	+	+	+	+	-	+	-	+	-	+	-	+	-	+



194 bp bottom strand cy5

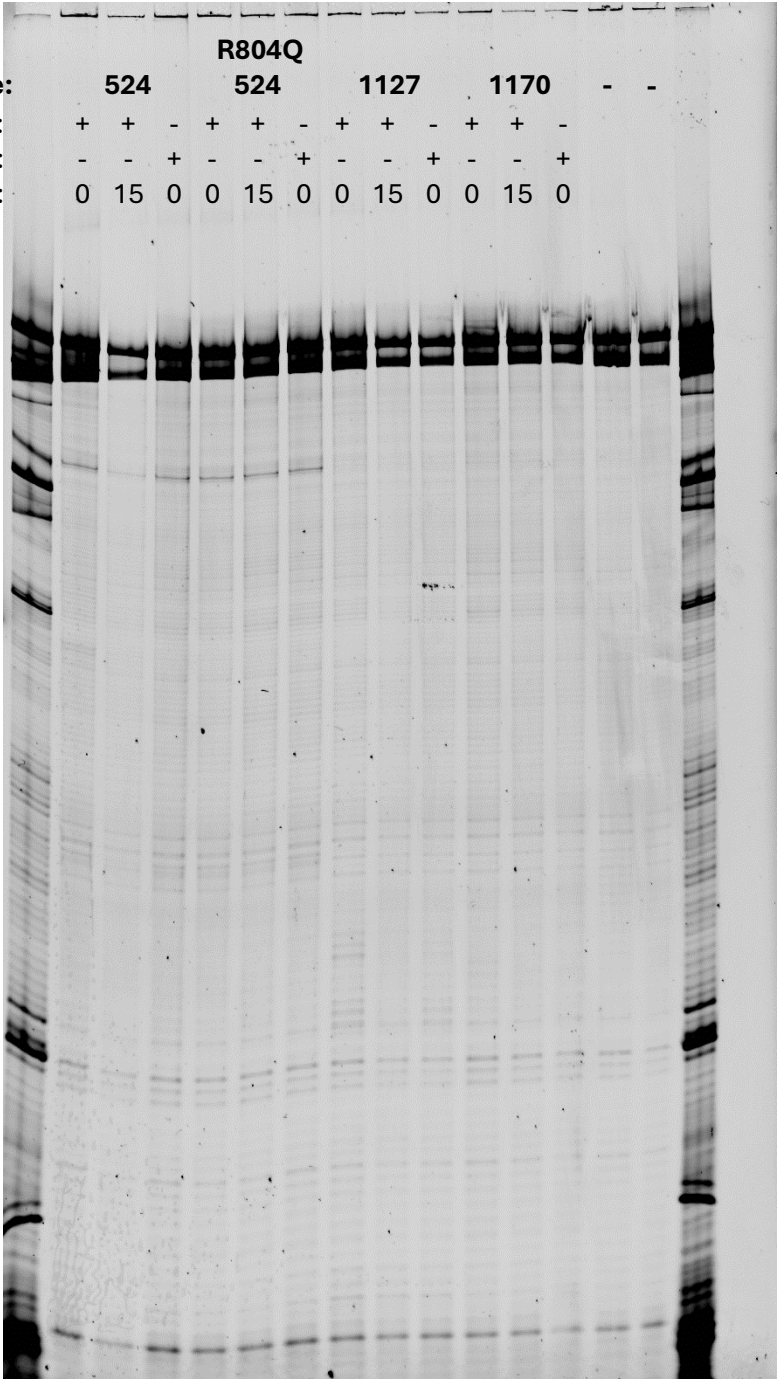
1127	-	-	-	524	1127	1127								
10	10	0	10	20	0	0	10	10	20	20	0	0	20	20
-	+	+	+	+	-	+	-	+	-	+	-	+	-	+



*1127 had R834Q mutation,
as well as S221C

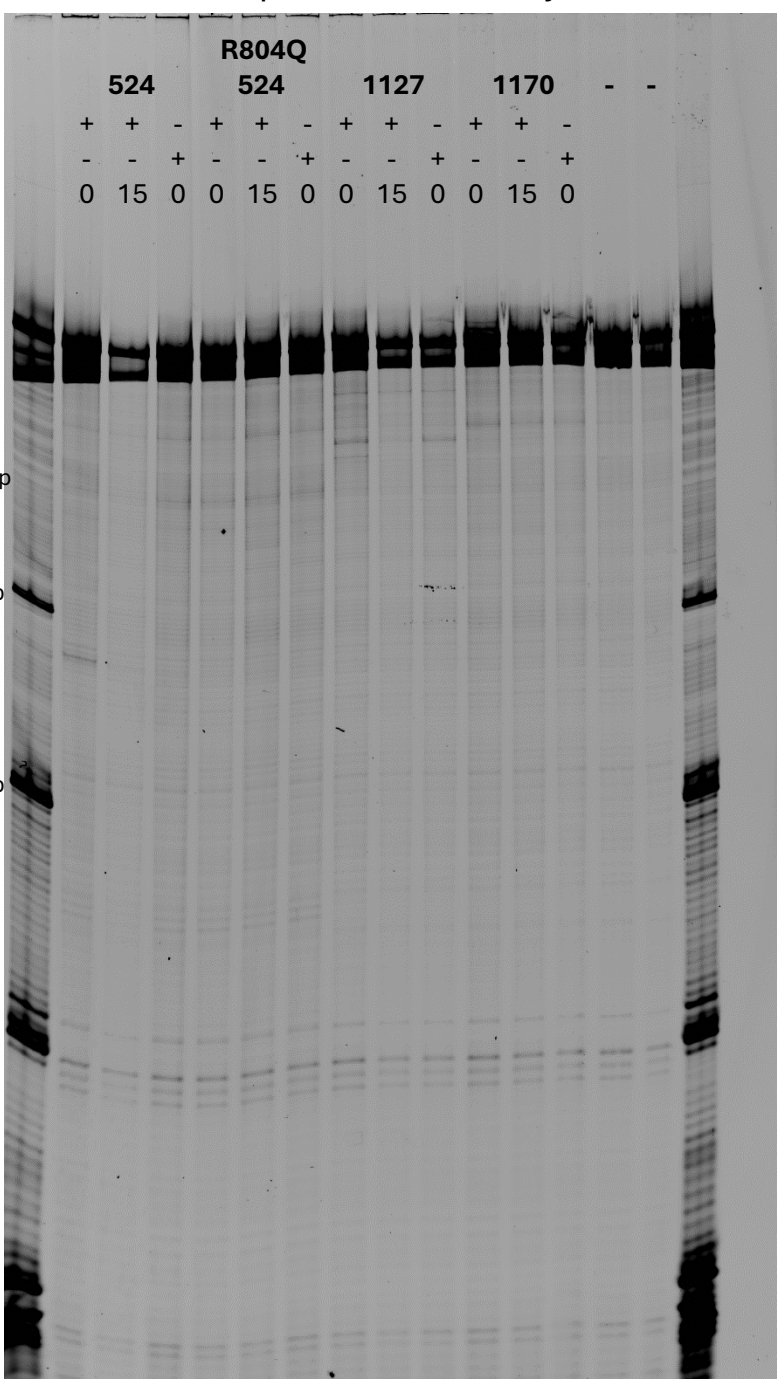
194 bp Top strand Cy3

Fe site:	524			R804Q			1127			1170			-	-
ATP(2.5uM):	+	+	-	+	+	-	+	+	-	+	+	-		
ADP-BeF(1.5uM):	-	-	+	-	-	+	-	-	+	-	-	+		
Time (30C):	0	15	0	0	15	0	0	15	0	0	15	0		



194 bp bottom strand cy5

	524			R804Q			1127			1170			-	-
ATP(2.5uM):	+	+	-	+	+	-	+	+	-	+	+	-		
ADP-BeF(1.5uM):	-	-	+	-	-	+	-	-	+	-	-	+		
Time (30C):	0	15	0	0	15	0	0	15	0	0	15	0		



126bp

95bp

68bp

