

Supplemental Table 1. Cysteines substitution mutants

Clone	lane in Figure 6A	Protein	Activity ¹	Cysteines Position ²											
				211	216	263	278	314	330	401	443	488	501	514	530
2	LPCAT1		+												
FK469	3	C ²¹¹ T	+	T											
FK621	Fig. S1	C ²¹¹ T C ⁵⁰¹ A	+	T									A		
FK482	4	C ²¹¹ T C ⁴⁴³ A	+	T				A				A			
FK480	5		+	T								A			
FK481	6		+	T	A							A		A	
FK493	7	C ²¹¹ T C ^(216,314,443,501,514) A	+	T	A			A				A	A	A	
FK492	8		-	T	A	A						A	A	A	
FK495	9		-	T	A	A						A		A	
FK494	10		-	T	A	A		A				A	A	A	
FK605	11		-	T	A	A		A		A		A	A	A	
FK607	12		-	T	A	A		A	A			A	A	A	
FK606	13		-	T	A	A		A	A	A		A	A	A	
FK609	14		-	T	A	A		A	A	A		A	A	A	A
FK613	15		-	T	A	A	A	A	A	A		A	A	A	A
FK622	Fig. S1		-	T	A	A	A	A	A	A		A	A	A	
FK614	16	Cys ¹²⁻	-	T	A	A	A	A	A	A		A	A	A	
FK623	Fig. S1		-		A	A	A	A	A	A		A	A	A	

¹ Activity rates of the enzymes are shown in Figure 4, Figure 6 and Supp. Figure S1.

² Position of the 12 cysteines residues and substitution to a threonine (T) or an alanine (A) are indicated in the corresponding column.