

SUPPLEMENTARY TABLES

Supplementary Table 1 - List of antibodies.

Antigen	Provider	Code	Clone	Conjugation	Type	Source
AAT	DAKO	A0012			pAb	Rabbit
AAT	Abcam	Ab0768		HRP	pAb	Sheep
HA tag	Sigma-Aldrich	H6908			pAb	Rabbit
HA tag	Sigma-Aldrich	H3663	HA-7		mAb	Mouse
Myc tag	Sigma-Aldrich	C3956			pAb	Rabbit
Myc tag	Thermo Scientific	R951-25		HRP	mAb	Mouse
Myc tag	Dr. Claudio Fagioli San Raffaele, Milan		9E10		mAb	Mouse
AAT polymers	Dr. James Irving UCL, London		2C1		mAb	Mouse
Calreticulin	Sigma-Aldrich	C4606			pAb	Rabbit
GM130	BD Biosciences	610822	35/GM130		mAb	Mouse
Mouse IgG	Thermo Scientific	A11032		594nm ALEXA®	pAb	Goat
Mouse IgG	GE Healthcare	RPN2124		HRP	pAb	Sheep
Rabbit IgG	Thermo Scientific	A11034		488nm ALEXA®	pAb	Goat
Rabbit IgG	GE Healthcare	RPN2124		HRP	pAb	Donkey

Supplementary Table 2 - List of oligonucleotides for mutagenesis.

AAT variant	Sequence
S	5'-GAAACTACAGCACCTGGTAAATGAACTCACCCACG
Mwurzburg	5'-CCCCGAGGTCAAGTTCAACAAATCCTTTGTCTTCTT
Mmalton	5'-CCAACAGCACCAATATCTTCTCCCCAGTGAGCATC

Supplementary Table 3 - Co-transfection efficiency in HeLa cells. HeLa cells were co-transfected with equimolar amounts of vectors encoding tagged variants and assayed by indirect immunofluorescence with anti-myc pAb and anti-HA mAb. The number of double positive and single positive cells was determined with ImageJ for each genotype over the number of nuclei in two distinct experiments.

Genotype	MM		MS		MZ		SZ		ZZ	
	EXP 1	EXP 2	EXP 1	EXP 2	EXP 1	EXP 2	EXP 1	EXP 2	EXP 1	EXP 2
N° nuclei	618	370	183	50	450	298	410	160	320	250
% double positive cells (n=2; MEAN±SD)	17.25±3.12		14.47±3.49		16.34±4.89		19.42±4.36		16.66±1.90	
% single positive cells (n=2; MEAN±SD)	2.00±2.14		3.73±2.44		3.95±0.57		4.46±2.52		3.67±0.10	