

**Supplementary Table S1** Summary of TAFI measurement used in previous studies and whether validated to be isoform-independent and characterized for reactivity toward the various TAFI forms (intact TAFI, TAFIa, TAFIai, released AP, smaller fragmentation products)

Ref nr	First Author	TAFI measure	Method	Conclusion	Comment
7	Franco	TAFI-Ag	ELISA, (monoclonal mouse and a polyclonal rabbit IgG, as used by Mosnier et al, 1998)	CPB2 promoter SNPs are associated with TAFI-Ag and may influence risk of venous thrombosis	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
8	Van Tilburg	TAFI-Ag	Electroimmunoassay (polyclonal rabbit)	Elevated TAFI levels are a mild risk factor for venous thrombosis	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
9	Santamaria	TAFIa	TAFIa activity assay (colorimetric determination of substrate hippurate, used method by Mosnier et al, 1998)	Elevated TAFIa activity increases risk of CAD	Isoforms have different stabilities.
10	Schroeder	TAFIa	TAFIa activity assay (colorimetric determination of synthetic peptide substrate, Pefakit® by Pentapharm Ltd)	TAFIa activity was higher in CAD patients than controls	Isoforms have different stabilities.
11	Ladenvall	Intact TAFI, TAFI-AP	ELISAs, in-house (monoclonal mouse IgG, developed by Ceresa et al, 2006)	Elevated TAFI associated with increased risk of ischemic stroke	Validated common isoform-independent. Exclusively recognizes intact TAFI or TAFI-AP.
12	Leebeek	TAFIa	TAFIa activity assay (clot lysis assay, used by Guimaraes 2005)	Elevated TAFI associated with increased risk of ischemic stroke	Isoforms have different stabilities.
13	Montaner	TAFI-Ag	ELISA, Hyphen	Elevated TAFI	No data on isoform-

			BioMed (Zymutest TAFI-Ag kit)	associated with increased risk of ischemic stroke	independent validation nor on possible differential reactivity toward various TAFI forms.
14	Chetaille	TAFI-Ag	ELISA, Milan Analytica (polyclonal sheep IgG)	TAFI-Ag stable within individuals, but large inter-individual variations.	†Not isoform insensitive.
15	Ariens	TAFI-Ag	ELISA, Affinity Biologicals (polyclonal sheep IgG)	Heritability TAFI-Ag 82%	†Not isoform insensitive.
16	Bladbjerg	TAFI-Ag	ELISA, in-house (polyclonal sheep IgG, Affinity Biologicals)	Heritability TAFI-Ag 71%	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
17	Peetz	TAFI-Ag	ELISA, Affinity Biologicals (polyclonal sheep IgG)	Heritability TAFI-Ag 76%	†Not isoform insensitive.
18	Sabater-Lleal	TAFI-Ag TAFIa	ELISA, Hyphen BioMed TAFIa activity assay (colorimetric determination of substrate hippurate), used method by Mosnier et al, 1998	Heritability TAFI-Ag 41% Heritability TAFIa activity 16%	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
19	Tregouet	TAFI-Ag	ELISA, Milan Analytica (polyclonal sheep IgG)	Variance explained by 2 SNPs 78%	†Not isoform insensitive.
20	Warren	TAFI-Ag	ELISA, Enzyme Research Laboratories (polyclonal sheep IgG)	Heritability TAFI-Ag 53%	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
21	Brouwers	TAFI-Ag	Electroimmunoassay (polyclonal rabbit anti-TAFI)	Identified Thr325Ile SNP associated with TAFI-Ag levels	No data on isoform-independent validation nor on

			IgG, used by Van Tilburg)		possible differential reactivity toward various TAFI forms.
22	Henry	TAFI-Ag	ELISA, Milan Analytica (polyclonal sheep IgG)	Identified promoter and 3' SNPs associated with TAFI-Ag levels	†Not isoform insensitive.
24	Gils	TAFI-Ag	Isoform-independent ELISA (monoclonal mouse IgG)	Developed new isoform-insensitive TAFI assay	Validated common isoform-independent.
25	Guimaraes	TAFI-Ag TAFIa	ELISA, commercial (Affinity Biologicals); Electroimmunoassay (by van Tilburg et al 2000); Chromogenic activity assay (Actichrome TAFI)	CPB2 SNPs are associated with TAFI levels	Commercial kit not isoform insensitive. However, the two other methods supported their conclusions.
26	Ceresa	Intact TAFI, TAFI-AP, TAFIa/ai	ELISA, in-house (monoclonal mouse IgG)	Developed new isoform-insensitive TAFI assays	Validated common isoform-independent. Exclusively recognizes intact TAFI or TAFI-AP, or TAFIa/ai.
38	Frere	TAFI-Ag TAFIa	ELISA, two in-house (monoclonal, including mouse 1B1) and Affinity Biologicals (polyclonal sheep) TAFIa activity assays, in-house (colorimetric determination of substrate, STA-Stachrom) and American Diagnostica (chromogenic assay, Actichrome	Variance explained by 5' and 3' CPB2 SNPs is 25%	Isoform-independent assays used for both Ag and activity (no direct data on validation). No information about possible differential reactivity toward various TAFI forms.

			TAFI)		
39	Frere	TAFI-Ag	ELISA, Diagnostica Stago (monoclonal antibodies 1B1/P4C2, Asserachrom, as used in Frere et al, 2005)	Transethnic haplotype analysis identified one 3' and two possible 5' SNPs as independent eQTLs	Isoform-independent assay (no direct data on validation). No information about possible differential reactivity toward various TAFI forms.
40	Biswas	TAFI-Ag	ELISA, Diagnostica STAGO (mouse monoclonal 1B1, Asserachrom CPB2)	CPB2 polymorphisms are associated with TAFI-Ag but not stroke in Asian-Indian population	No data on isoform-independent validation nor on possible differential reactivity toward various TAFI forms.
41	Morange	TAFI-Ag	ELISA, Diagnostica STAGO (mouse monoclonal 1B1, Asserachrom CPB2)	CPB2 polymorphisms are associated with TAFI-Ag but relationship to coronary heart disease is less clear	Isoform-independent assay (no direct data on validation). No information about possible differential reactivity toward various TAFI forms

Abbreviations: TAFI<sub>a</sub>, active TAFI; TAFI<sub>ai</sub>, inactive form of TAFI resulting from a conformational change of TAFI<sub>a</sub>; TAFI-Ag, 'total' TAFI antigen.

Ref nr, reference number used in the main manuscript. †Demonstrated to be isoform-sensitive by Gils et al., 2003 (Ref 24 in main manuscript).