Supplementary table 1 Call rate for the proteins that were excluded from the analyses in PIVUS and ULSAM

Cohort	Protein	Callrate
PIVUS	MMP.7	0,836
	NT.pro.BNP	0,834
	PTX3	0,807
	mAmP	0,753
	NEMO	0,417
	SIRT2	0,307
	Beta.NGF	0,080
	BNP	0,036
	ITGB1BP2	0,009
	IL.4	0,007
ULSAM	PTX3	0,846
	CSTB	0,781
	BNP	0,779
	mAmP	0,742
	HSP.27	0,284
	IL.4	0,023

Supplementary Table 2 The cross sectional associations between the proteins and baseline eGFR in PIVUS: Multivariable linear regression The 20 proteins that were also associated with GFR decline in **bold**.

Protein	Regression coefficient	95 % confidence intervals	p-value
prot_ccl3	**-5.669**	**(-6.946, -4.392)**	**<1.00e-10**
prot_tnf_r1	**-11.129**	**(-12.276, -9.983)**	**<1.00e-10**
prot_gdf_15	**-6.611**	**(-8, -5.222)**	**<1.00e-10**
prot_casp_8	-4.675	(-6.025, -3.326)	<1.00e-10
prot_tm	**-5.784**	**(-6.961, -4.608)**	**<1.00e-10**
prot_trail_r2	**-7.367**	**(-8.614, -6.12)**	**<1.00e-10**
prot_hk11	**-5.934**	**(-7.105, -4.764)**	**<1.00e-10**
prot_tnf_r2	**-9.383**	**(-10.548, -8.217)**	**<1.00e-10**
prot_plgf	**-6.707**	**(-8.001, -5.412)**	**<1.00e-10**
prot_csf_1	**-6.495**	**(-7.713, -5.277)**	**<1.00e-10**
prot_cd40	**-7.572**	**(-8.726, -6.417)**	**<1.00e-10**
prot_klk6	**-5.278**	**(-6.494, -4.062)**	**<1.00e-10**
prot_fas	-4.342	(-5.58, -3.105)	<1.00e-10
prot_par_1	**-8.008**	**(-9.222, -6.795)**	**<1.00e-10**
prot_fgf_23	**-4.532**	**(-5.777, -3.288)**	**<1.00e-10**
prot_u_par	**-6.824**	**(-8.021, -5.627)**	**<1.00e-10**
prot_cx3cl1	-4.585	(-5.802, -3.368)	<1.00e-10
prot_am	-4.554	(-5.838, -3.27)	<1.00e-10
prot_fabp4	**-7.599**	**(-9.212, -5.985)**	**<1.00e-10**
prot_tf	-4.154	(-5.373, -2.935)	1.00e-10
prot_il_16	-4.371	(-5.654, -3.089)	1.00e-10
prot_mcp_1	**-3.936**	**(-5.177, -2.694)**	**9.00e-10**
prot_mb	-4.208	(-5.556, -2.859)	1.60e-09
prot_retn	**-3.751**	**(-5.013, -2.49)**	**8.70e-09**
prot_gal_3	-3.882	(-5.204, -2.559)	1.33e-08
prot_tim	-3.892	(-5.22, -2.563)	1.42e-08
prot_spon1	-3.553	(-4.791, -2.315)	2.74e-08
prot_chi3l1	**-3.66**	**(-4.937, -2.383)**	**2.85e-08**
prot_agrp	-3.615	(-4.885, -2.345)	3.52e-08
prot_cxcl16	-3.4	(-4.605, -2.195)	4.57e-08
prot_mmp_3	-4.072	(-5.554, -2.59)	1.01e-07
prot_vegf_a	-3.435	(-4.69, -2.179)	1.15e-07
prot_trail	-3.302	(-4.523, -2.08)	1.64e-07
prot_mmp_12	-3.576	(-4.912, -2.24)	2.10e-07
prot_rage	-3.218	(-4.433, -2.004)	2.73e-07
prot_il_18	-3.263	(-4.5, -2.025)	3.12e-07
prot_mmp_10	-3.151	(-4.374, -1.927)	5.77e-07
prot_il27_a	-2.907	(-4.146, -1.668)	5.09e-06
prot_ecp	-2.81	(-4.028, -1.593)	7.18e-06
prot_il_1ra	-3.115	(-4.5, -1.73)	.0000121
prot_hgf	-2.729	(-4.07, -1.388)	.0000736
prot_fs	-2.474	(-3.745, -1.204)	.0001481
prot_ccl4	-2.273	(-3.472, -1.073)	.0002219
prot_il_8	-2.308	(-3.54, -1.075)	.0002613

prot_hb_egf	-2.196	(-3.377, -1.015)	.0002895
prot_ctsd	**-2.151**	**(-3.439, -.862)**	**.0011241**
prot_lox_1	-2.097	(-3.356, -.838)	.0011517
prot_scf	-2.043	(-3.289, -.797)	.0013756
prot_ren	-2.236	(-3.644, -.829)	.001923
prot_esm_1	-1.812	(-3.091, -.533)	.0056365
prot_tnfsf14	-1.852	(-3.174, -.53)	.0061972
prot_opg	-1.841	(-3.164, -.518)	.0065365
prot_vegf_d	-1.66	(-2.88, -.441)	.0077789
prot_il_6	-1.78	(-3.088, -.472)	.007817
prot_cd40_l	-1.676	(-2.938, -.414)	.0094351
prot_mpo	-1.573	(-2.773, -.372)	.0104758
prot_trance	-1.471	(-2.69, -.251)	.0183549
prot_pecam_1	-1.452	(-2.658, -.246)	.0185944
prot_il_6ra	-1.274	(-2.467, -.08)	.0369053
prot_t_pa	-1.329	(-2.695, .036)	.0567712
prot_mmp_1	-1.134	(-2.342, .075)	.0665308
prot_dkk_1	-1.109	(-2.325, .107)	.0742434
prot_gal	-1.173	(-2.508, .163)	.0857326
prot_pappa	-1.074	(-2.353, .204)	.1000108
prot_prl	-.975	(-2.198, .249)	.1190399
prot_lep	-1.611	(-3.765, .542)	.1430082
prot_ctsl1	**-.904**	**(-2.135, .326)**	**.1502544**
prot_cxcl6	-.735	(-1.933, .464)	.2299433
prot_ccl20	-.747	(-1.994, .5)	.2406343
prot_ca_125	-.661	(-1.855, .533)	.278216
prot_src	-.473	(-1.723, .777)	.4586058
prot_sele	-.466	(-1.709, .777)	.4623642
prot_tie2	-.404	(-1.591, .782)	.5043949
prot_egf	.376	(-.861, 1.614)	.5513943
prot_en_rage	-.385	(-1.724, .955)	.5738608
prot_cxcl1	.212	(-.981, 1.405)	.7278922
prot_pdgf_subunit_b	.186	(-1.021, 1.392)	.7631809
prot_st2	.167	(-1.085, 1.418)	.7940096
prot_gh	-.158	(-1.466, 1.15)	.8131222
prot_psgl_1	.055	(-1.141, 1.251)	.9280039

Supplementary Table 3 The cross sectional associations between the proteins and baseline eGFR in ULSAM: Multivariable linear regression The 20 proteins that were also associated with GFR decline in **bold**.

Protein	Regression coefficient	95 % confidence intervals	p-value
prot_tm	**-6.289**	**(-7.816, -4.762)**	**<1.00e-10**
prot_fabp4	**-8.626**	**(-10.294, -6.958)**	**<1.00e-10**
prot_fas	-5.778	(-7.329, -4.226)	<1.00e-10
prot_am	-7.225	(-8.907, -5.544)	<1.00e-10
prot_tnf_r2	**-9.973**	**(-11.509, -8.437)**	**<1.00e-10**
prot_csf_1	**-6.131**	**(-7.756, -4.506)**	**<1.00e-10**
prot_u_par	**-6.006**	**(-7.547, -4.465)**	**<1.00e-10**
prot_hk11	**-6.75**	**(-8.393, -5.107)**	**<1.00e-10**
prot_trail_r2	**-11.117**	**(-12.731, -9.504)**	**<1.00e-10**
prot_par_1	**-7.372**	**(-8.996, -5.748)**	**<1.00e-10**
prot_klk6	**-6.648**	**(-8.303, -4.993)**	**<1.00e-10**
prot_fgf_23	**-7.613**	**(-9.458, -5.767)**	**<1.00e-10**
prot_cd40	**-6.173**	**(-7.759, -4.586)**	**<1.00e-10**
prot_gdf_15	**-8.645**	**(-10.412, -6.878)**	**<1.00e-10**
prot_tnf_r1	**-11.068**	**(-12.482, -9.654)**	**<1.00e-10**
prot_plgf	**-9.099**	**(-10.827, -7.371)**	**<1.00e-10**
prot_ccl3	**-5.298**	**(-6.955, -3.64)**	**1.10e-09**
prot_gal_3	-5.198	(-6.84, -3.557)	1.60e-09
prot_lep	-6.624	(-8.738, -4.509)	2.30e-09
prot_mmp_3	-5.157	(-6.84, -3.474)	4.90e-09
prot_cx3cl1	-4.796	(-6.384, -3.208)	8.00e-09
prot_il_16	-4.383	(-5.955, -2.811)	9.00e-08
prot_agrp	-5.069	(-6.901, -3.236)	1.13e-07
prot_retn	**-4.557**	**(-6.233, -2.881)**	**1.80e-07**
prot_chi3l1	**-4.2**	**(-5.785, -2.614)**	**3.62e-07**
prot_casp_8	-4.171	(-5.821, -2.521)	1.15e-06
prot_mb	-4.192	(-5.883, -2.502)	1.80e-06
prot_il_1ra	-4.16	(-5.895, -2.425)	3.81e-06
prot_tim	-4.563	(-6.49, -2.635)	5.00e-06
prot_tf	-4.108	(-5.852, -2.365)	5.51e-06
prot_spon1	-3.803	(-5.456, -2.15)	8.97e-06
prot_hgf	-3.872	(-5.656, -2.087)	.0000274
prot_rage	-3.483	(-5.168, -1.797)	.0000638
prot_en_rage	-3.253	(-4.93, -1.575)	.000171
prot_il27_a	-3.369	(-5.109, -1.629)	.0001753
prot_il_18	-3.066	(-4.662, -1.47)	.0001963
prot_mmp_10	-3.006	(-4.585, -1.426)	.0002251
prot_il_6ra	-3.022	(-4.628, -1.417)	.0002618
prot_prl	-3.314	(-5.126, -1.501)	.00039
prot_t_pa	-3.075	(-4.817, -1.333)	.0006082
prot_mmp_12	-3.079	(-4.856, -1.301)	.0007691
prot_vegf_a	-2.711	(-4.277, -1.145)	.0007728
prot_ctsd	**-2.814**	**(-4.451, -1.176)**	**.0008477**
prot_trail	-2.798	(-4.43, -1.166)	.0008688

prot_cxcl16	-2.691	(-4.321, -1.062)	.0013275
prot_il_6	-2.574	(-4.177, -.972)	.0017843
prot_il_8	-2.529	(-4.191, -.867)	.0030721
prot_opg	-2.534	(-4.235, -.833)	.0037385
prot_fs	-2.389	(-4.015, -.763)	.0042349
prot_ctsl1	**-2.273**	**(-3.921, -.625)**	**.0072222**
prot_ren	-2.569	(-4.473, -.666)	.0085347
prot_mcp_1	**-2.215**	**(-3.91, -.52)**	**.0108764**
prot_tnfsf14	-2.28	(-4.044, -.516)	.0117359
prot_ccl4	-2.042	(-3.642, -.443)	.0127767
prot_cxcl1	-2.013	(-3.739, -.288)	.0228076
prot_mpo	-1.927	(-3.646, -.207)	.0287399
prot_scf	-1.782	(-3.434, -.131)	.0351581
prot_tie2	-1.741	(-3.37, -.112)	.0369192
prot_gal	-1.603	(-3.388, .183)	.0794466
prot_sele	-1.544	(-3.326, .238)	.0903656
prot_psgl_1	-1.184	(-2.827, .459)	.1587038
prot_gh	-1.145	(-2.805, .516)	.1776774
prot_vegf_d	-1.208	(-2.982, .566)	.1829479
prot_ecp	-1.129	(-2.808, .551)	.1886543
prot_dkk_1	-1.116	(-2.783, .551)	.1903725
prot_ca_125	-1.033	(-2.785, .719)	.2486797
prot_lox_1	-1.015	(-2.748, .718)	.2517346
prot_pecam_1	-.885	(-2.533, .763)	.2932845
prot_mmp_1	-.887	(-2.547, .773)	.2954944
prot_cxcl6	-.834	(-2.447, .779)	.3114009
prot_trance	-.784	(-2.458, .889)	.3588698
prot_egf	-.574	(-2.266, 1.118)	.5067096
prot_pdgf_subunit_b	.561	(-1.098, 2.22)	.5076354
prot_st2	-.547	(-2.241, 1.147)	.5271488
prot_hb_egf	-.449	(-2.097, 1.199)	.5938676
prot_ccl20	-.346	(-2.105, 1.412)	.6998356
prot_pappa	.305	(-1.372, 1.982)	.721699
prot_esm_1	-.27	(-1.994, 1.454)	.7591559
prot_cd40_l	-.016	(-1.693, 1.662)	.9852958
prot_src	.008	(-1.727, 1.743)	.9926238