Table S5. Association between mRNA expression level and lung cancer clinicopathological parameters of four candidate genes in Asian <sup>a</sup>.

Characteristics			ARHGAP19			FRAT2				PAFAH1B1				ZNF322A				
		Total <sup>b</sup>	overexpression <sup>c</sup>		Normal		overexpression <sup>c</sup>		Normal		overexpression <sup>c</sup>		Normal		overexpression <sup>c</sup>		Normal	
		n	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)
Overall		45	33	(73.3)	12	(26.7)	23	(51.1)	22	(48.9)	31	(68.9)	14	(31.1)	27	(60.0)	18	(40.0)
Clinicopat	hological parameters																	
Age	< 65	22	13	(59.1)	9	(40.9)	10	(45.5)	12	(54.5)	15	(68.2)	7	(31.1)	14	(63.6)	8	(36.4)
	≧65	23	20	$(87.9)^{0.035}$	3	(13.1)	13	(56.5)	10	(43.5)	16	(69.6)	7	(30.4)	13	(56.5)	10	(43.5)
Sex	Male	36	29	$(80.6)^{0.028}$	37	(19.4)	18	(50.0)	18	(50.0)	25	(69.4)	11	(30.6)	18	(50)	18	(50)
	Female	9	4	(44.4)	10	(55.6)	5	(55.6)	4	(44.4)	6	(66.7)	3		5	(55.6)	4	(44.4)
Smoker	Yes	18	15	(83.3) 0.019	3	(16.7)	7	(38.8)	11	(61.2)	14	(77.8)	4	(22.2)	11	(61.1)	7	(38.9)
	No	8	3	(37.5)	5	(62.5)	5	(62.5)	3	(37.5)	5	(62.5)	3		6	(75.0)	2	(25.0)
Tumor typ	e																	
ADC		28	16	(57.1)	12	(42.9)	10	(35.7)	18	(64.3)	18	(64.3)	10	(35.7)	15	(53.6)	13	(46.4)
SCC		17	17	$(100)^{0.002}$	0	(0)	13	$(76.5)^{0.008}$	4	(23.5)	13	(76.5)	4		12	(70.6)	5	(29.4)
Tumor sta	ge																	
I + II	-	21	16	(76.2)	5	(23.8)	10	(52.4)	11	(47.6)	13	(59.1)	9	(40.9)	14	(66.7)	7	(33.3)
III + I	V	23	16	(69.6)	7	(30.4)	12	(52.2)	11	(47.8)	18	(78.3)	5	(21.7)	12	(52.2)	11	(47.8)
Correlation	n with protein	28																
IHC	Over expression										14	$(73.7)^{0.041}$	5	(26.3)	16	$(84)^{0.030}$	3	(16)
	Normal expression										3	(33.3)	6	(66.7)	4	(44.4)	5	(55.6)

 $<sup>^{\</sup>rm a}$  The P values with significance are shown as superscripts.

<sup>&</sup>lt;sup>b</sup> Total number of samples in some categories is less than the overall number analyzed because clinical data or molecular data was not available for these samples.

<sup>&</sup>lt;sup>c</sup> The mRNA overexpression of candidate genes was defined using the mean mRNA expression of normal lung tissue as a cutoff value to determine patients with mRNA overexpression.