

**Table S1 Clinical characteristics of cancer patients in this study**

Case NO	Age	Gender	Tumor type & Pathology type	Histological grade	TNM stage
1	65	M	Lung squamous cell carcinoma	3	T1N0M0
2	61	M	Lung squamous cell carcinoma	1-2	T1N0M0
3	57	M	Lung squamous cell carcinoma	2	T1N0M0
4	62	M	Lung squamous cell carcinoma	2	T1N0M0
5	62	F	Lung squamous cell carcinoma	2	T1N0M0
6	75	M	Lung squamous cell carcinoma	1-2	T1N0M0
7	77	M	Lung squamous cell carcinoma	2	T2aN0M0
8	55	M	Lung squamous cell carcinoma	2	T2aN0M0
9	61	M	Lung squamous cell carcinoma	3	T2aN0M0
10	70	M	Lung squamous cell carcinoma	3	T2aN0M0
11	76	F	Lung squamous cell carcinoma	3	T2aN0M0
12	58	M	Lung squamous cell carcinoma	1	T2aN0M0
13	67	M	Lung squamous cell carcinoma	2	T2aN0M0
14	72	M	Lung squamous cell carcinoma	2	T2aN0M0
15	70	M	Lung squamous cell carcinoma	2	T2aN0M0
16	57	M	Lung squamous cell carcinoma	2-3	T2aN0M0
17	74	M	Lung squamous cell carcinoma	2-3	T2aN0M0
18	65	M	Lung squamous cell carcinoma	2-3	T2aN0M0
19	69	M	Lung squamous cell carcinoma	3	T2aN0M0
20	58	M	Lung squamous cell carcinoma	2	T2aN0M0
21	69	M	Lung squamous cell carcinoma	2	T2aN0M0
22	67	M	Lung squamous cell carcinoma	3	T2aN0M0
23	42	M	Lung squamous cell carcinoma	2	T2aN0M0
24	65	M	Lung squamous cell carcinoma	2	T2aN0M0
25	74	M	Lung squamous cell carcinoma	2	T2aN0M0
26	63	M	Lung squamous cell carcinoma	2	T2aN0M0
27	69	M	Lung squamous cell carcinoma	2	T2aN0M0
28	64	M	Lung squamous cell carcinoma	1	T2bN0M0
29	72	M	Lung squamous cell carcinoma	1	T2bN0M0
30	53	M	Lung squamous cell carcinoma	2	T2bN0M0
31	61	M	Lung squamous cell carcinoma	2	T2bN0M0
32	68	M	Lung squamous cell carcinoma	2	T2bN0M0
33	56	M	Lung squamous cell carcinoma	2	T2bN0M0
34	63	M	Lung squamous cell carcinoma	2	T2bN0M0
35	56	M	Lung squamous cell carcinoma	3	T2bN0M0
36	70	M	Lung squamous cell carcinoma	1-2	T2bN0M0
37	74	M	Lung squamous cell carcinoma	2-3	T2bN0M0
38	73	M	Lung squamous cell carcinoma	2-3	T2bN0M0
39	65	M	Lung squamous cell carcinoma	2-3	T2bN0M0
40	53	M	Lung squamous cell carcinoma	2	T2bN0M0
41	72	M	Lung squamous cell carcinoma	1-2	T2aN1M0
42	63	M	Lung squamous cell carcinoma	2	T2aN1M0
43	72	M	Lung squamous cell carcinoma	2	T2aN1M0
44	65	M	Lung squamous cell carcinoma	1-2	T2aN1M0
45	68	M	Lung squamous cell carcinoma	2	T2aN1M0
46	58	M	Lung squamous cell carcinoma	2	T2aN1M0
47	55	M	Lung squamous cell carcinoma	2	T2aN1M0
48	69	M	Lung squamous cell carcinoma	2	T2aN1M0
49	72	F	Lung squamous cell carcinoma	1-2	T3N0M0
50	73	M	Lung squamous cell carcinoma	2	T3N0M0
51	60	M	Lung squamous cell carcinoma	2	T3N0M0
52	73	M	Lung squamous cell carcinoma	2-3	T2bN1M0
53	74	M	Lung squamous cell carcinoma	3	T2bN1M0
54	74	M	Lung squamous cell carcinoma	3	T2bN1M0
55	67	M	Lung squamous cell carcinoma	2	T2bN1M0
56	68	M	Lung squamous cell carcinoma	2	T3N1M0
57	67	M	Lung squamous cell carcinoma	2	T3N1M0
58	68	M	Lung squamous cell carcinoma	3	T3N1M0
59	65	M	Lung squamous cell carcinoma	2	T3N1M0

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60	61	M	Lung squamous cell carcinoma	3	T3N1M0
61	60	M	Lung squamous cell carcinoma	3	T4N1M0
62	59	F	Lung squamous cell carcinoma	2	T2aN2M0
63	67	M	Lung squamous cell carcinoma	2	T2aN2M0
64	63	M	Lung squamous cell carcinoma	1-2	T2aN2M0
65	67	M	Lung squamous cell carcinoma	2-3	T2aN2M0
66	52	M	Lung squamous cell carcinoma	2-3	T2aN2M0
67	75	M	Lung squamous cell carcinoma	2	T3N2M0
68	75	M	Lung squamous cell carcinoma	2	T2aN2M0
69	67	M	Lung squamous cell carcinoma	3	T2bN2M0
70	62	M	Lung squamous cell carcinoma	2	T2bN2M0
71	31	M	Lung squamous cell carcinoma	2	T2bN2M0
72	56	M	Lung squamous cell carcinoma	2	T2bN2M0
73	63	M	Lung squamous cell carcinoma	2-3	T1N3M0
74	55	M	Lung squamous cell carcinoma	2	T4N1M1
75	53	M	Lung squamous cell carcinoma	2	T1N0M1
76	84	F	Lung adenocarcinoma	1	T1N0M0
77	61	M	Lung adenocarcinoma	1	T1N0M0
78	68	F	Lung adenocarcinoma	2	T1N0M0
79	63	M	Lung adenocarcinoma	2	T1N0M0
80	67	F	Lung adenocarcinoma	2	T1N0M0
81	57	M	Lung adenocarcinoma	2-3	T1N0M0
82	50	F	Lung adenocarcinoma	2-3	T1N0M0
83	50	F	Lung adenocarcinoma	2-3	T1N0M0
84	64	F	Lung adenocarcinoma	1	T2aN0M0
85	65	F	Lung adenocarcinoma	1	T2aN0M0
86	59	M	Lung adenocarcinoma	1-2	T2aN0M0
87	68	F	Lung adenocarcinoma	1-2	T2aN0M0
88	53	F	Lung adenocarcinoma	1-2	T2aN0M0
89	59	F	Lung adenocarcinoma	2	T2aN0M0
90	65	F	Lung adenocarcinoma	2	T2aN0M0
91	76	F	Lung adenocarcinoma	2	T2aN0M0
92	60	M	Lung adenocarcinoma	2	T2aN0M0
93	60	M	Lung adenocarcinoma	2	T2aN0M0
94	68	M	Lung adenocarcinoma	2	T2aN0M0
95	65	M	Lung adenocarcinoma	2	T2aN0M0
96	74	M	Lung adenocarcinoma	2-3	T2aN0M0
97	57	M	Lung adenocarcinoma	2-3	T2aN0M0
98	40	F	Lung adenocarcinoma	2-3	T2aN0M0
99	61	M	Lung adenocarcinoma	3	T2aN0M0
100	37	M	Lung adenocarcinoma	3	T2aN0M0
101	56	M	Lung adenocarcinoma	3	T2aN0M0
102	65	M	Lung adenocarcinoma	3	T2aN0M0
103	70	M	Lung adenocarcinoma	2-3	T2bN0M0
104	60	F	Lung adenocarcinoma	2-3	T2bN0M0
105	60	M	Lung adenocarcinoma	3	T2bN0M0
106	53	F	Lung adenocarcinoma	1-2	T2aN1M0
107	67	F	Lung adenocarcinoma	2	T2aN1M0
108	65	F	Lung adenocarcinoma	2	T2aN1M0
109	81	F	Lung adenocarcinoma	2	T2aN1M0
110	67	M	Lung adenocarcinoma	2-3	T2aN1M0
111	65	M	Lung adenocarcinoma	2-3	T2aN1M0
112	63	M	Lung adenocarcinoma	2-3	T2aN1M0
113	58	M	Lung adenocarcinoma	2-3	T2aN1M0
114	42	V	Lung adenocarcinoma	3	T2aN1M0
115	64	M	Lung adenocarcinoma	3	T2aN1M0
116	68	M	Lung adenocarcinoma	3	T2aN1M0
117	71	F	Lung adenocarcinoma	2	T3N0M0
118	59	M	Lung adenocarcinoma	3	T3N0M0
119	59	F	Lung adenocarcinoma	2	T3N1M0
120	71	M	Lung adenocarcinoma	2	T3N1M0

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121	65	M	Lung adenocarcinoma	2-3	T3N1M0
122	60	M	Lung adenocarcinoma	2-3	T3N1M0
123	47	M	Lung adenocarcinoma	3	T3N1M0
124	75	F	Lung adenocarcinoma	2	T4N1M0
125	56	M	Lung adenocarcinoma	1-2	T1N2M0
126	64	M	Lung adenocarcinoma	1-2	T2aN2M0
127	67	M	Lung adenocarcinoma	2	T2aN2M0
128	52	M	Lung adenocarcinoma	2	T2aN2M0
129	48	M	Lung adenocarcinoma	2	T2aN2M0
130	51	F	Lung adenocarcinoma	2-3	T2aN2M0
131	53	M	Lung adenocarcinoma	2-3	T2aN2M0
132	65	M	Lung adenocarcinoma	3	T2aN2M0
133	72	M	Lung adenocarcinoma	3	T2aN2M0
134	55	M	Lung adenocarcinoma	3	T2bN2M0
135	63	M	Lung adenocarcinoma	2	T3N2M0
136	65	M	Lung adenocarcinoma	2-3	T3N2M0
137	50	M	Lung adenocarcinoma	2-3	T4N2M0
138	73	F	Lung adenocarcinoma	2-3	T4N2M0
139	48	F	Lung adenocarcinoma	2-3	T4N2M0
140	57	F	Lung adenocarcinoma	3	T4N2M0
141	61	M	Lung adenocarcinoma	2	T2bN3M0
142	60	F	Lung adenocarcinoma	1-2	T3N3M0
143	77	F	Lung adenocarcinoma	2-3	T3N3M0
144	52	F	Lung adenocarcinoma	3	T3N3M0
145	65	F	Lung adenocarcinoma	2	T4N3M0
146	44	F	Lung adenocarcinoma	2	T2N0M1
147	50	F	Lung adenocarcinoma	3	T2N0M1
148	58	F	Lung adenocarcinoma	2	T2N0M1
149	65	F	Lung adenocarcinoma	2	T3N2M1
150	56	M	Lung adenocarcinoma	3	T4N2M1
151	76	F	Colon adenocarcinoma	2	T2N1b
152	71	M	Colon adenocarcinoma	2	T2N0M0
153	74	F	Colon adenocarcinoma	2	T2N0M0
154	74	M	Colon adenocarcinoma	2	T2N0M0
155	31	M	Colon adenocarcinoma	2	T2N0M0
156	50	F	Colon adenocarcinoma	2	T2N0M0
157	52	M	Hepatoma	2-3	T1N0M0
158	61	M	Hepatoma	3	T1N0M0
159	32	M	Hepatoma	2	T1N0M0
160	71	M	Hepatoma	3	T1N0M0
161	69	M	Hepatoma	2	T1N0M0
162	41	M	Hepatoma	2	T1N0M0
163	53	F	Breast cancer	2	T2N0M0
164	53	F	Breast cancer	2	T2N0M0
165	56	F	Breast cancer	2	T2N0M0
166	41	F	Breast cancer	2	T2N0M0
167	55	F	Breast cancer	2	T2N0M0
168	66	F	Lung adenocarcinoma	2	T2N0M1
169	54	M	Lung adenocarcinoma	2	T3N0M1
170	85	M	Lung adenocarcinoma	2	T2N0M1
171	82	M	Lung adenocarcinoma	2	T2N0M1
172	51	F	Lung squamous cell carcinoma	2	T2N0M1
173	57	M	Lung adenocarcinoma	2-3	T3N2M1
174	48	M	Lung adenocarcinoma	2	T2N0M1
175	46	M	Lung adenocarcinoma	3	T2N0M1
176	65	M	Breast cancer	2-3	T2N0M1
177	76	M	Hepatoma	2	T2N0M1
178	64	M	Lymphoma	3	T4N2M1
179	70	F	esophagus cancer	2	T2N0M1
180	46	M	Lymphoma	3	T2N0M1
181	53	M	esophagus cancer	3	T2N0M1

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182	68	M	esophagus cancer	3	T3N0M1
183	68	M	esophagus cancer	2	T2N0M1

**Table S2 LunX levels in 150 cases of non-small-cell lung cancer (75 lung adenocarcinoma, 75 squamous cell lung carcinoma)**

	Adenocarcinoma (TNM Stage <sup>a</sup> )				Squamous cell carcinoma (TNM Stage)			
	I	II	III	IV	I	II	III	IV
<b>Case(n)</b>	27	28	18	2	27	28	18	2
<b>Gender(M/F)</b>	25/2	27/1	17/1	2/0	25/2	27/1	17/1	2/0
<b>Mean age(years)</b>	65	66	63	54	65	66	63	54
<b>Levels of LunX<sup>b</sup></b>								
<b>0</b>	0%(0/27)	0%(0/28)	5.6%(1/18)	0%(0/2)	14.9%(4/27)	7.1%(2/28)	5.6%(1/18)	0%(0/2)
<b>1</b>	3.7%(1/27)	10.7%(3/28)	5.6%(1/18)	0%(0/2)	22.2%(6/27)	28.6%(8/28)	11.1%(2/18)	0%(0/2)
<b>2</b>	37%(10/27)	21.4%(6/28)	33.3%(6/18)	50%(1/2)	37%(10/27)	39.3%(11/28)	50%(9/18)	50%(1/2)
<b>3</b>	59.3%(16/27)	67.9%(19/28)	55.6%(10/18)	50%(1/2)	25.9%(7/27)	25%(7/28)	33.3(6/18)	50%(1/2)

<sup>a</sup>Pathologic stage was determined as I , II , III or IV according to the American Joint Committee on Cancer (AJCC) TNM system.

<sup>b</sup>LunX expression was classified into one of four categories according to the LunX staining intensity: 3, intense expression; 2, moderate expression; 1, faint or equivocal expression; and 0, no expression.

**Table S3 4-year survival rate in 102 cases of non-small-cell lung cancer (NSCLC)**

	Levels of LunX <sup>a</sup>			
	0	1	2	3
<b>Adenocarcinoma</b>	0%(0/1)	100%(3/3)	61.1%(11/18)	42.3%(11/26)
<b>Squamous cell carcinoma</b>	80%(4/5)	71.4%(10/14)	20%(3/15)	30%(6/20)
<b>NSCLC (total patients)</b>	66.7%(4/6)	76.5%(13/17)	42.4%(14/33)	36.9%(17/46)

<sup>a</sup>LunX expression was classified into one of four categories according to the LunX staining intensity: 3, intense expression; 2, moderate expression; 1, faint or equivocal expression; and 0, no expression.