

S1_Table :Univariate cox analysis on 1595 re-annotated lncRNA probes in the training cohort.

prome_id	lncRNA_Symbol	p	HR	Low.95.CI	High.95.CI
ILMN_3235196	MIR1302-2HG	0.003370812	21.54570801	2.766699891	167.787455
ILMN_3239576	FAM138A	0.031844434	2.917253818	1.097436182	7.75477425
ILMN_1860216	AL627309.1	0.030625973	0.401185706	0.175283451	0.91822684
ILMN_1711838	AL627309.3	0.024661603	1.413457679	1.04514782	1.91155985
ILMN_2083334	AL627309.2	0.007668535	0.388455011	0.193853265	0.77840988
ILMN_3206672	AL627309.5	0.019978886	0.624213316	0.419690438	0.92840396
ILMN_3235143	AL627309.4	0.007410601	10.52412957	1.879397187	58.9323555
ILMN_1744709	AP006222.2	0.020000645	0.322722167	0.12445477	0.83684696
ILMN_1741662	AL732372.1	0.034743107	4.47148204	1.113358854	17.9584072
ILMN_2174711	AC114498.1	0.026320474	0.174487551	0.037392165	0.81423222
ILMN_1759023	AL669831.2	0.048111275	1.706903522	1.004452134	2.90060575
ILMN_1864512	LINC01409	0.005576871	39.06854903	2.9253746	521.762759
ILMN_1911500	FAM87B	0.034298306	6.513122428	1.148694363	36.9295481
ILMN_1678842	LINC01128	0.039074846	1.272926171	1.012170248	1.60085819
ILMN_1859127	LINC00115	0.018179274	2.101557645	1.13473297	3.89214436
ILMN_1799015	FAM41C	0.039209535	0.483368619	0.242201774	0.9646718
ILMN_1665571	AL645608.6	0.044502083	0.294950029	0.08964467	0.97044832
ILMN_3192411	AL645608.2	0.006698749	0.074805223	0.011480478	0.48742058
ILMN_1732860	AL645608.4	0.010549151	0.024118716	0.001388526	0.41894248
ILMN_2155480	LINC02593	0.003132033	4.685525625	1.68184074	13.0536441
ILMN_1714176	AL645608.7	0.003189456	49.1635616	3.69225131	654.629273
ILMN_1726153	AL645608.1	0.001019825	2.695369292	1.491742799	4.87015297
ILMN_3241081	AL645608.5	0.049404852	0.652774487	0.42658807	0.99888994
ILMN_1735157	AL645608.8	0.035774803	0.546132102	0.310493432	0.96060091
ILMN_1784046	AL390719.3	0.046261181	18.97634098	1.049999795	342.953893
ILMN_1672795	LINC01342	0.038753403	3.727054833	1.07036931	12.9777055
ILMN_1796074	AL390719.2	0.021646241	0.602462842	0.390941471	0.9284292
ILMN_1864631	TTLL10-AS1	0.00642408	0.103045674	0.020101562	0.52823809
ILMN_1666924	AL162741.1	0.032077077	1.976135445	1.060041053	3.68392459
ILMN_1695485	LINC01786	0.029685823	14.76948415	1.303922601	167.293413
ILMN_2392370	AL139287.1	0.006123738	0.386367681	0.195745891	0.7626213
ILMN_1806779	MRPL20-AS1	0.003367726	0.063681186	0.010104806	0.40132323
ILMN_3273229	AL391244.2	0.006576798	2.175351527	1.241922674	3.81034534
ILMN_2363426	AL391244.1	0.019250771	4.341038941	1.269686387	14.8419478
ILMN_3241665	LINC01770	0.019767445	0.354954828	0.148560676	0.84809072
ILMN_1712944	AL645728.1	0.047250953	0.572093464	0.32951678	0.99324511

ILMN_3261278	AL691432.4	0.013599947	0.165804256	0.039787953	0.69093908
ILMN_1656382	AL691432.2	0.010026372	0.020918753	0.001101969	0.39710215
ILMN_3237562	FO704657.1	0.030347876	4.021189815	1.141213034	14.1691052
ILMN_1690268	AL031282.2	0.045148728	0.46850308	0.223122162	0.98374421
ILMN_3282121	AL391845.2	0.015256925	0.110598572	0.018675235	0.65498743
ILMN_3188005	AL391845.1	0.049504512	4.925342822	1.00346117	24.175327
ILMN_1855430	AL590822.2	0.030535209	3.322840057	1.119360287	9.86390724
ILMN_1897279	PRKCZ-AS1	0.044253155	20.91860778	1.081312632	404.682363
ILMN_3255389	AL590822.3	0.023485636	0.077732465	0.008527043	0.70860865
ILMN_1759691	AL589739.1	0.043418985	0.036503353	0.001469458	0.90679335
ILMN_3231300	AL513477.2	0.016831093	0.37985271	0.171761262	0.84005019
ILMN_1863899	AL139246.1	0.017152059	30.00888582	1.830059373	492.078695
ILMN_3235718	AL139246.4	0.048894727	0.316019634	0.100427485	0.99443303
ILMN_1746309	AL139246.5	0.033092606	0.345155676	0.129748096	0.91818257
ILMN_1733103	TNFRSF14-AS1	0.018760353	1.860303085	1.108583297	3.12175691
ILMN_1848461	AL139246.3	0.010690914	16.07749034	1.905735424	135.635667
ILMN_1869348	AL831784.1	0.032355094	0.024400734	0.000813709	0.73170605
ILMN_3238143	AC242022.2	0.035362686	14.76586996	1.202649009	181.292226
ILMN_1866290	AC242022.1	0.020607663	8.460117391	1.387580376	51.5815786
ILMN_1791057	AL592464.2	0.002452965	2.617964506	1.404497493	4.87985076
ILMN_1762545	AL592464.3	0.036124718	11.08205563	1.168356282	105.115159
ILMN_1863185	AL592464.1	0.03952338	0.409253277	0.174820595	0.95805786
ILMN_3241729	AL589702.1	0.016831399	5.828273793	1.373541816	24.7307909
ILMN_1825712	PRDM16-DT	0.024703089	0.021956552	0.000784053	0.61486971
ILMN_1818577	AL008733.1	0.010359111	0.161822094	0.040208724	0.65126142
ILMN_3263099	AL590438.1	0.045342032	2.869879973	1.022102643	8.05810562
ILMN_1676990	AL354743.2	0.022365723	0.076302561	0.008387959	0.69409979
ILMN_1690870	AL354743.1	0.041849222	0.034240148	0.001327756	0.88298422
ILMN_1838767	AL512413.1	0.005621066	0.622834144	0.445481627	0.8707932
ILMN_2410965	AL513320.1	0.041496684	0.503537101	0.260343776	0.97390311
ILMN_1653039	AL136528.1	0.014897104	0.540427605	0.329308535	0.88689471
ILMN_1825421	AL136528.2	0.023002702	0.031253551	0.00157508	0.62014901
ILMN_1671703	AL365330.1	0.019598382	1.362994239	1.050874683	1.7678162
ILMN_1653047	LINC01134	0.049324245	0.27616887	0.076560062	0.99620146
ILMN_1848913	LINC01346	0.036859666	0.117574791	0.01575253	0.8775626
ILMN_1716259	LINC01345	0.041710293	0.053463753	0.003190513	0.89589765
ILMN_1737168	LINC02780	0.002868222	0.02757342	0.002602043	0.29219096
ILMN_1670452	AL805961.1	0.020542397	0.335355559	0.13304695	0.84529071
ILMN_2350801	LINC01777	0.016948534	0.285300247	0.101907268	0.79872842
ILMN_1804461	AL355602.1	0.000660376	0.364040681	0.203507603	0.65120721
ILMN_1684227	Z98747.1	0.03941283	15.67223426	1.142758502	214.935112
ILMN_1910645	LINC01646	0.017351486	19.35526455	1.685519332	222.261625

ILMN_1677997	Z98886.1	0.005918047	3.757395021	1.463852899	9.64442353
ILMN_3268403	BX005132.1	0.039176226	0.382468002	0.153429466	0.95341382
ILMN_1697544	LINC02781	0.000727801	0.12193421	0.035976723	0.41326586
ILMN_1906423	LINC02782	0.02919571	2.273410087	1.086734629	4.75589282
ILMN_1671800	AL139823.1	0.009847799	0.49192583	0.287042028	0.84305084
ILMN_1772522	Z98259.3	0.021709358	0.311424147	0.115012712	0.84325461
ILMN_1709204	Z98259.2	0.0081387	2.509992449	1.269560529	4.962396
ILMN_1871413	Z98259.1	0.047711565	13.53415586	1.026617645	178.424144
ILMN_1783204	AL365255.1	0.011858126	0.017435555	0.000744215	0.40848212
ILMN_1695829	AL031847.1	0.028373294	4.793110006	1.180514213	19.4609292
ILMN_1720433	LINC00337	0.007136022	0.716153482	0.561537529	0.913342
ILMN_1728403	AL031848.2	0.013366698	0.159404503	0.037210261	0.68287067
ILMN_1827283	AL031848.1	0.040486782	0.27660983	0.080895107	0.94582975
ILMN_1861128	LINC01672	0.016213816	11.80801589	1.577840125	88.3671527
ILMN_1676712	AL591163.1	0.02622212	2.13470628	1.093847109	4.16600351
ILMN_1696318	CAMTA1-DT	0.012249288	0.524097967	0.316129098	0.86888136
ILMN_1719139	AL512330.1	0.030688161	12.08784149	1.261049727	115.868477
ILMN_3230508	CAMTA1-IT1	0.021687926	7.294417367	1.337325935	39.7872525
ILMN_1734734	Z97987.1	0.029791346	0.154005238	0.028488774	0.83252488
ILMN_1770473	AL365194.1	0.005172936	17.97040696	2.372176031	136.134723
ILMN_3236695	AL359881.3	0.027517095	0.030075319	0.001333468	0.67832502
ILMN_3246060	AL359881.2	0.005309208	3.244579533	1.418302183	7.42246361
ILMN_2143383	AL359881.1	0.009918446	0.025711705	0.001591174	0.41547416
ILMN_1917095	Z98884.2	0.01842637	7.939552405	1.417589253	44.4673887
ILMN_1913537	Z98884.1	0.030968464	10.34088561	1.238457678	86.3444242
ILMN_3237991	AL034417.4	0.036449328	1.43075436	1.022845473	2.00133656
ILMN_3308936	AL034417.3	0.0497668	13.30639213	1.002640514	176.593773
ILMN_1676411	AL034417.2	0.018811945	0.194458139	0.049601525	0.76235495
ILMN_1908840	LINC01714	0.037882535	9.498044386	1.134223921	79.5370698
ILMN_1812043	AL358876.2	0.030577347	20.15745109	1.324913703	306.678717
ILMN_1701933	RERE-AS1	0.044808187	0.702604469	0.497706499	0.99185572
ILMN_1701966	AL357552.2	0.042595007	0.20236348	0.043194633	0.94805708
ILMN_1880113	ENO1-AS1	0.015378476	20.23193898	1.777186024	230.325554
ILMN_1774974	MIR34AHG	0.012698608	0.322994949	0.132798847	0.78559219
ILMN_1867134	LNCTAM34A	0.006291038	0.033616916	0.002948346	0.38329871
ILMN_3281342	BX323043.1	0.025738777	0.256435241	0.077545058	0.84801062
ILMN_1729421	LINC02606	0.025720329	18.49742186	1.4244314	240.204348
ILMN_3301334	AL928921.1	0.016320777	0.045973379	0.003723883	0.56756664
ILMN_1863592	PIK3CD-AS1	0.001578482	6.981920687	2.091617307	23.3059921
ILMN_1849285	PIK3CD-AS2	0.043924775	14.81576439	1.076137163	203.97667
ILMN_1653801	AL357140.1	0.013405581	18.62944599	1.834135516	189.220619
ILMN_1674782	AL357140.4	0.011075325	1.496057324	1.096397238	2.041402

ILMN_3308828	AL357140.2	0.026472688	0.057800466	0.004661127	0.71675673
ILMN_1906299	AL603962.1	0.001364655	16.64860546	2.976943463	93.1076009

S2_Table :The significant identified 37 probes

symbol	p.value	HR	Low 95%CI	High 95%CI
ILMN_3235196	3.59E-05	1598.167014	48.33579972	52841.534
ILMN_1860216	0.046987319	0.306872567	0.095663804	0.98439293
ILMN_1759023	0.027268973	2.503789498	1.108459372	5.65556304
ILMN_1864512	0.035041767	45.43374268	1.307072493	1579.27352
ILMN_1799015	0.003517674	0.198164873	0.066823191	0.58766001
ILMN_3192411	0.02960716	0.037565599	0.001952846	0.72262449
ILMN_1732860	0.033859807	0.009245598	0.000122168	0.69969914
ILMN_1726153	0.021195316	2.732449643	1.162157485	6.42450025
ILMN_1672795	0.020824145	10.86666809	1.436947219	82.1773227
ILMN_3241665	0.034499254	0.228351935	0.058076071	0.89786732
ILMN_1897279	0.030344434	125.0387337	1.58159659	9885.38104
ILMN_3255389	0.032165609	0.025532599	0.000890835	0.73180034
ILMN_1863899	0.034086372	94.76915175	1.407328221	6381.73241
ILMN_1791057	0.000429311	6.984763414	2.367582695	20.6062158
ILMN_3241729	1.14E-05	477.7672151	30.38343431	7512.69621
ILMN_1825712	0.005183259	0.000530683	2.68E-06	0.10499434
ILMN_1676990	0.041485643	0.030942032	0.001094847	0.87446881
ILMN_1838767	0.030727876	0.563413798	0.334804457	0.94812091
ILMN_1653047	0.012025309	0.107228519	0.018773215	0.61246595
ILMN_1670452	0.024871009	0.215659146	0.056455865	0.82380932
ILMN_1804461	0.012395768	0.317369549	0.1290936	0.78023566
ILMN_1677997	0.001669212	12.95109084	2.6229722	63.9468287
ILMN_1697544	0.022175421	0.135390722	0.024404644	0.75111309
ILMN_1906423	0.0120521	5.488342205	1.452717045	20.7348708
ILMN_1671800	0.0321299	0.406810686	0.17869486	0.92613147
ILMN_1709204	0.010550491	3.854131318	1.370412997	10.8393077
ILMN_1861128	0.036676487	25.39046473	1.221755906	527.663256
ILMN_1913537	0.008792082	90.30604531	3.109623117	2622.56277
ILMN_1812043	0.011899172	188.0830724	3.176959917	11134.935
ILMN_1880113	0.006016121	141.8364377	4.134739974	4865.49945
ILMN_1867134	0.023293731	0.020203793	0.000694057	0.58812647
ILMN_3281342	0.038343375	0.164089037	0.02966891	0.9075228
ILMN_1729421	0.00892141	151.831912	3.519212402	6550.59339
ILMN_1863592	0.013426122	9.667664023	1.600208482	58.4072192
ILMN_1653801	0.001964042	136.3751747	6.069393571	3064.25808
ILMN_3308828	0.003320569	0.00237944	4.22E-05	0.13415592
ILMN_1906299	0.000771302	106.1584326	7.001420458	1609.61806

