

S4 Table. Evaluation of Regression Models for Refining Semi-Quantitative Approach of ULV1 panel

Genes	Assay	Range (%)	Linear regression	R ²	Quadratic regression	R ²	4PL	R ²
EGFR	E709K	0.025-1	y=61.5x+28.6	0.77	y=16.3+181.8*x-118.9*x ²	0.96	y=93.6+(-4.5-93.6)/(1+(x/0.13) ^{0.9})	1.00
	G719A	0.025-1	y=33.4x+43.6	0.77	y=37.9+89.3*x-55.2*x ²	0.92	y=88.4+(6.0-88.4)/(1+(x/0.077) ^{0.53})	0.99
	G719D	0.025-1	y=50x+24.1	0.89	y=17.7+112.7*x-62.0*x ²	0.98	y=126.6+(3.4-126.6)/(1+(x/0.81) ^{0.59})	1.00
	L747_P753>S	0.025-1	y=44.8x+13.8	0.95	y=10.2+80.4*x-35.2*x ²	0.99	y=105.3+(7.9-105.3)/(1+(x/1.05) ^{0.89})	1.00
	E746_A750del insK	0.025-1	y=58.1x+12.1	0.86	y=3.4+143.3*x-84.2*x ²	0.98	y=78.1+(-1.3-78.1)/(1+(x/0.27) ^{1.1})	0.99
	E746_A750del	0.025-1	y=54.4x+36.1	0.63	y=22.7+185.1*x-129.1*x ²	0.87	y=89.5+(-68.0-89.5)/(1+(x/0.022) ^{0.73})	0.98
	T790M	0.025-1	y=52.3x+20.7	0.75	y=11.3+143.3*x-90.0*x ²	0.90	y=78.6+(-10.1-78.6)/(1+(x/0.13) ^{0.82})	0.95
	C797S	0.025-1	y=8.28x+69.4	0.21	y=65.4+47.2*x-38.4*x ²	0.51	y=76.1+(49.5-76.1)/(1+(x/0.031) ^{2.6})	0.96
	L858R	0.025-1	y=34.2x+48.2	0.53	y=39.1+123.1*x-87.7*x ²	0.77	y=77.3+(-146.6-77.3)/(1+(x/0.006) ^{0.87})	0.98
	BRAF	V600E	0.025-1	y=30.5x+44.9	0.40	y=34.6+130.5*x-98.8*x ²	0.69	y=67.3+(31.4-67.3)/(1+(x/0.10) ^{45.6})
KRAS	G12D	0.025-1	y=34.3x+1.1	0.98	y=0.3+42.2*x-7.7*x ²	0.98	y=38.4+(2.9-38.4)/(1+(x/0.48) ^{2.8})	0.98
	G12V	0.025-1	y=54.4x+27.9	0.73	y=16.8+163.0*x-107.3*x ²	0.93	y=76.9+(5.5-76.9)/(1+(x/0.12) ^{1.2})	0.98
	G13D	0.025-1	y=35.6x+11.1	0.93	y=8.4+61.8*x-25.9*x ²	0.97	y=47.9+(11.0-47.9)/(1+(x/0.39) ^{2.2})	0.98
	G13V	0.025-1	y=48.7x+6.34	0.97	y=3.2+79.2*x-30.2*x ²	1.00	y=159.1+(0.86-159.1)/(1+(x/2.4) ^{0.83})	1.00

EGFR, epidermal growth factor receptor.