

S23 Table: QL-XII-47 significantly affects the expression of the selected 163 genes as evident in the “LINCS L1000 Chem Pert down” category in Enrichr. The last number after the - is dose density.

Term	Overlap	P-value	Adjusted P-value
LINCS L1000 Chem Pert down			
LJP006 BT20 24H-QL-XII-47-10	19/169	$1.52 \times 10^{-16}$	$2.29 \times 10^{-13}$
LJP006 SKBR3 24H-QL-XII-47-3.33	19/180	$4.98 \times 10^{-16}$	$5.69 \times 10^{-13}$
LJP006 HA1E 24H-QL-XII-47-1.11	16/178	$1.40 \times 10^{-12}$	$3.48 \times 10^{-10}$
LJP006 HS578T 24H-QL-XII-47-10	15/184	$2.95 \times 10^{-11}$	$3.91 \times 10^{-9}$
LJP006 HA1E 24H-QL-XII-47-0.37	12/106	$6.49 \times 10^{-11}$	$7.46 \times 10^{-9}$
LJP006 HA1E 24H-QL-XII-47-3.33	15/195	$6.76 \times 10^{-11}$	$7.72 \times 10^{-9}$
LJP006 LNCAP 24H-QL-XII-47-10	13/151	$3.28 \times 10^{-10}$	$2.80 \times 10^{-8}$
LJP006 SKBR3 24H-QL-XII-47-1.11	14/185	$3.72 \times 10^{-10}$	$3.10 \times 10^{-8}$
LJP006 LNCAP 24H-QL-XII-47-3.33	13/168	$1.23 \times 10^{-9}$	$8.37 \times 10^{-8}$
LJP006 HS578T 24H-QL-XII-47-3.33	13/175	$2.03 \times 10^{-9}$	$1.27 \times 10^{-7}$
LJP006 BT20 24H-QL-XII-47-0.37	12/164	$1.03 \times 10^{-8}$	$4.95 \times 10^{-7}$
LJP006 HME1 3H-QL-XII-47-10	9/90	$5.11 \times 10^{-8}$	$1.91 \times 10^{-6}$
LJP006 BT20 24H-QL-XII-47-3.33	11/165	$1.12 \times 10^{-7}$	$3.71 \times 10^{-6}$
LJP006 HME1 24H-QL-XII-47-0.12	7/52	$2.06 \times 10^{-7}$	$6.21 \times 10^{-6}$
LJP006 A549 24H-QL-XII-47-10	10/146	$3.35 \times 10^{-7}$	$9.26 \times 10^{-6}$
LJP006 MCF7 24H-QL-XII-47-3.33	9/116	$4.60 \times 10^{-7}$	$1.20 \times 10^{-5}$
LJP006 LNCAP 3H-QL-XII-47-0.37	6/43	$1.27 \times 10^{-6}$	$2.83 \times 10^{-5}$
LJP006 HA1E 24H-QL-XII-47-10	8/98	$1.38 \times 10^{-6}$	$3.03 \times 10^{-5}$
LJP006 BT20 24H-QL-XII-47-1.11	9/135	$1.65 \times 10^{-6}$	$3.53 \times 10^{-5}$
LJP006 HEPG2 24H-QL-XII-47-3.33	10/176	$1.86 \times 10^{-6}$	$3.89 \times 10^{-5}$
LJP006 MCF10A 24H-QL-XII-47-10	8/107	$2.69 \times 10^{-6}$	$5.29 \times 10^{-5}$
LJP006 HS578T 24H-QL-XII-47-1.11	6/49	$2.80 \times 10^{-6}$	$5.47 \times 10^{-5}$
LJP006 HME1 24H-QL-XII-47-1.11	9/152	$4.41 \times 10^{-6}$	$8.07 \times 10^{-5}$
LJP006 LNCAP 3H-QL-XII-47-1.11	5/32	$5.70 \times 10^{-6}$	$1.00 \times 10^{-4}$
LJP006 HCC515 24H-QL-XII-47-10	8/123	$7.63 \times 10^{-6}$	$1.28 \times 10^{-4}$
LJP006 MDAMB231 24H-QL-XII-47-3.33	6/60	$9.30 \times 10^{-6}$	$1.52 \times 10^{-4}$
LJP006 LNCAP 24H-QL-XII-47-1.11	9/170	$1.09 \times 10^{-5}$	$1.75 \times 10^{-4}$
LJP006 HEPG2 24H-QL-XII-47-1.11	10/219	$1.29 \times 10^{-5}$	$2.02 \times 10^{-4}$
LJP006 MCF7 24H-QL-XII-47-0.12	5/38	$1.37 \times 10^{-5}$	$2.11 \times 10^{-4}$
LJP006 LNCAP 3H-QL-XII-47-10	5/41	$2.00 \times 10^{-5}$	$2.92 \times 10^{-4}$
LJP006 HME1 24H-QL-XII-47-10	7/113	$3.93 \times 10^{-5}$	$5.18 \times 10^{-4}$
LJP006 HME1 24H-QL-XII-47-0.37	8/157	$4.48 \times 10^{-5}$	$5.77 \times 10^{-4}$
LJP006 LNCAP 3H-QL-XII-47-3.33	4/27	$6.45 \times 10^{-5}$	$7.86 \times 10^{-4}$
LJP006 SKBR3 24H-QL-XII-47-10	8/167	$6.93 \times 10^{-5}$	$8.34 \times 10^{-4}$
LJP006 HME1 24H-QL-XII-47-3.33	7/125	$7.48 \times 10^{-5}$	$8.86 \times 10^{-4}$
LJP006 HEPG2 24H-QL-XII-47-0.12	6/90	$9.46 \times 10^{-5}$	$1.07 \times 10^{-3}$
LJP006 HME1 3H-QL-XII-47-0.37	5/58	$1.09 \times 10^{-4}$	$1.21 \times 10^{-3}$
LJP006 MCF7 24H-QL-XII-47-0.37	5/58	$1.09 \times 10^{-4}$	$1.21 \times 10^{-3}$
LJP006 MCF7 24H-QL-XII-47-1.11	6/94	$1.20 \times 10^{-4}$	$1.31 \times 10^{-3}$
LJP006 LNCAP 3H-QL-XII-47-0.12	4/32	$1.28 \times 10^{-4}$	$1.39 \times 10^{-3}$
LJP006 BT20 3H-QL-XII-47-0.37	4/33	$1.45 \times 10^{-4}$	$1.53 \times 10^{-3}$
LJP006 HS578T 3H-QL-XII-47-1.11	4/41	$3.40 \times 10^{-4}$	$3.17 \times 10^{-3}$
LJP006 LNCAP 24H-QL-XII-47-0.37	6/115	$3.62 \times 10^{-4}$	$3.33 \times 10^{-3}$
LJP006 SKBR3 24H-QL-XII-47-0.12	4/60	$1.45 \times 10^{-3}$	$1.07 \times 10^{-2}$
LJP006 HS578T 3H-QL-XII-47-3.33	3/30	$1.84 \times 10^{-3}$	$1.30 \times 10^{-2}$
LJP006 MDAMB231 24H-QL-XII-47-10	4/65	$1.96 \times 10^{-3}$	$1.37 \times 10^{-2}$
LJP006 SKBR3 3H-QL-XII-47-1.11	4/72	$2.84 \times 10^{-3}$	$1.86 \times 10^{-2}$
LJP006 MCF7 24H-QL-XII-47-10	5/124	$3.49 \times 10^{-3}$	$2.19 \times 10^{-2}$
LJP006 BT20 24H-QL-XII-47-0.12	5/141	$6.01 \times 10^{-3}$	$3.38 \times 10^{-2}$
LJP006 BT20 3H-QL-XII-47-0.04	2/15	$6.47 \times 10^{-3}$	$3.57 \times 10^{-2}$
LJP006 A549 24H-QL-XII-47-0.37	4/98	$8.49 \times 10^{-3}$	$4.43 \times 10^{-2}$
LJP006 MCF10A 24H-QL-XII-47-1.11	3/53	$9.24 \times 10^{-3}$	$4.75 \times 10^{-2}$
LJP006 SKBR3 24H-QL-XII-47-0.37	4/101	$9.42 \times 10^{-3}$	$4.81 \times 10^{-2}$