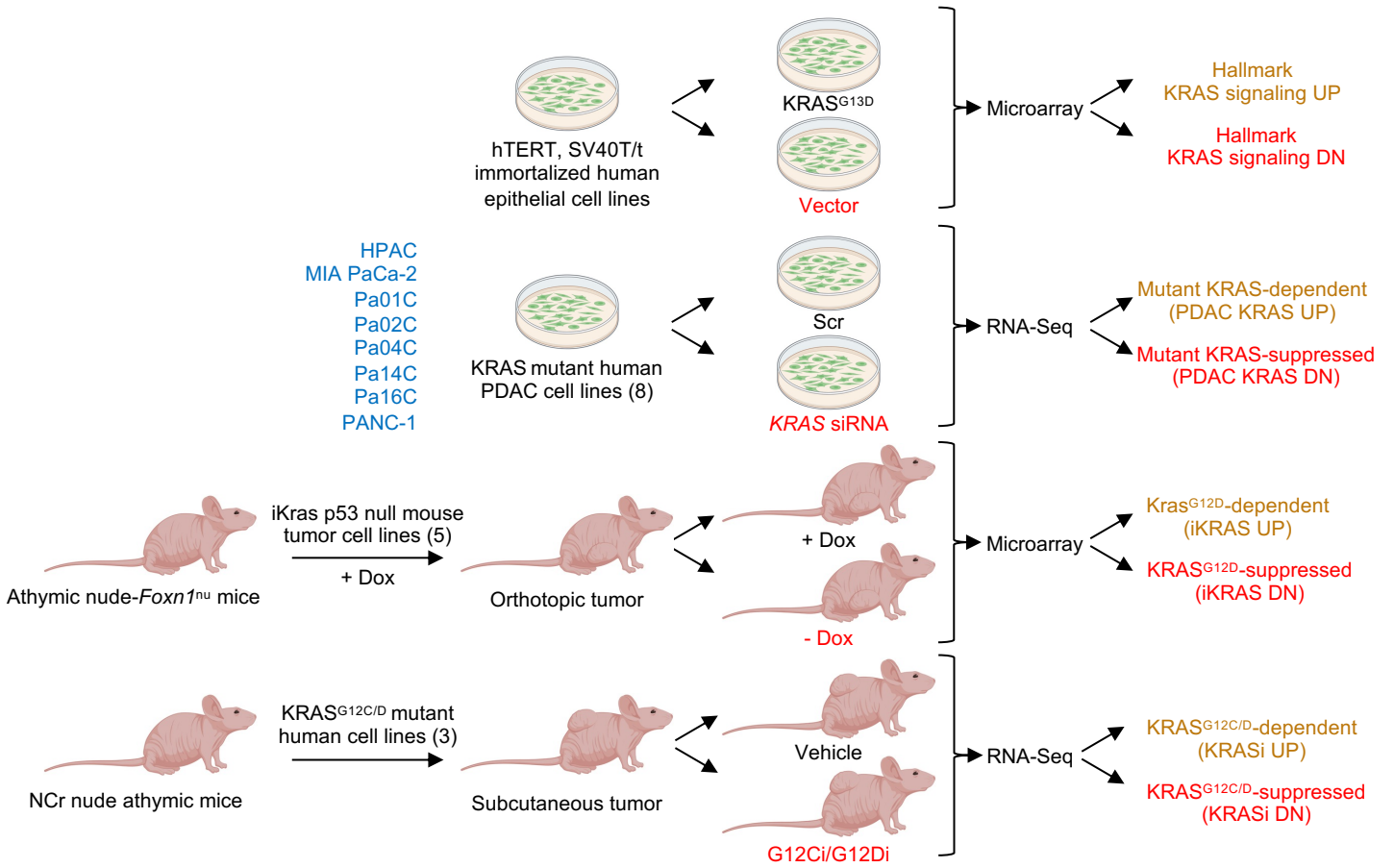


figure S1

A



Mutant KRAS-dependent transcriptome analyses					
Study	PDAC model	KRAS inhibition	Method	Strengths	Limitations
Liberzon et al. (Cell Syst, 2015)	Compiled from KRAS ^{G13D} overexpressing epithelial cells and correlated gene sets	KRAS ^{G13D} overexpression	Microarray	<ul style="list-style-type: none"> Emergent programming Mostly isogenic comparisons 	<ul style="list-style-type: none"> Limited interpretation of founding gene sets Limited precision
This study	KRAS-mutant PDAC cell lines	KRAS targeted siRNA (24 h) and loss of KRAS gene and protein expression	RNA-Seq	<ul style="list-style-type: none"> Multiple (8) human PDAC cell lines reflect genetic heterogeneity of human PDAC 	<ul style="list-style-type: none"> In vitro cell culture environment Potential off-target siRNA activities
Ying et al. (Cell, 2012)	Doxycycline-inducible Kras ^{G12D} ; Tp53 ^{-/-} mouse cell line-induced orthotopic tumors	Doxycycline withdrawal (24 h) and loss of Kras ^{G12D} protein expression	Microarray	<ul style="list-style-type: none"> In vivo 3D tumor Pancreas stroma Regulation of mutant Kras expression 	<ul style="list-style-type: none"> Mouse Genetic simplicity of PDAC tumors RNA quality
Hallin et al. (Cancer Discov, 2020) Hallin et al. (Nat Med, 2022)	KRAS ^{G12C} and KRAS ^{G12D} mutant human PDAC cell line-induced mouse xenograft tumors	KRAS ^{G12C/D} inhibitor treatment (24 h) and inhibition of KRAS effector binding	RNA-Seq	<ul style="list-style-type: none"> In vivo 3D tumor; genetic heterogeneity of human PDAC Pharmacologic inhibition of mutant KRAS function 	<ul style="list-style-type: none"> Subcutaneous nonphysiologic location Mouse stroma-containing tumors RNA quality

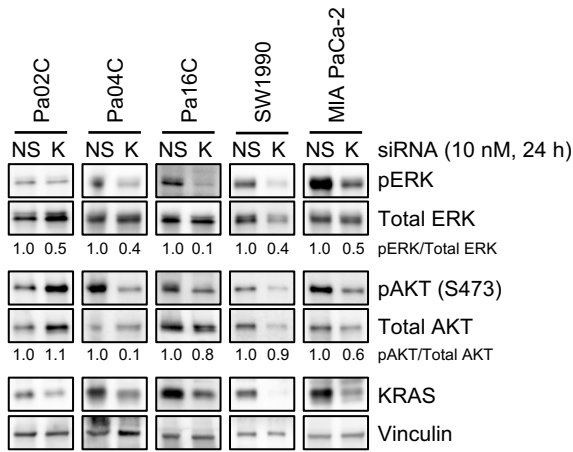
B

PDAC cell line characteristics						
Cell line	Driver gene mutations				Sex	Site
	KRAS	TP53	CDKN2A	SMAD4		
AsPC-1	G12D ^a	C135Afs*35	L78Hfs*41	R100T	Female	Metastatic
HPAC	G12D/WT	WT	E120Ter	D52N_fs*?	Female	Primary
HPAF-II	G12D ^a	P151S	[R29G; A34V];L32_del_fs	WT	Male	Metastatic
MIA PaCa-2	G12C ^a	R248W	Deletion	WT	Male	Primary
Pa01C	G12D/WT	T155P	P70del_fs*74	Deletion	Male	Metastatic
Pa02C	Q61H ^a	L257P	Deletion	Deletion	Male	Metastatic
Pa04C	G12V ^a	Deletion	Deletion	WT	Male	Metastatic
Pa14C/Panc 08.13	G12D/WT	L344P	[R87_F90_del_fs*54];[R87W; F90C]	WT	Male	Primary
Pa16C/Panc 10.05	G12D/WT	I255N	CDKN2A-201 expression loss	WT	Male	Primary
PANC-1	G12D/WT	R273H	Deletion	WT	Male	Primary
SW1990	G12D ^a	Q533Ter	NA	NA	Male	Metastatic

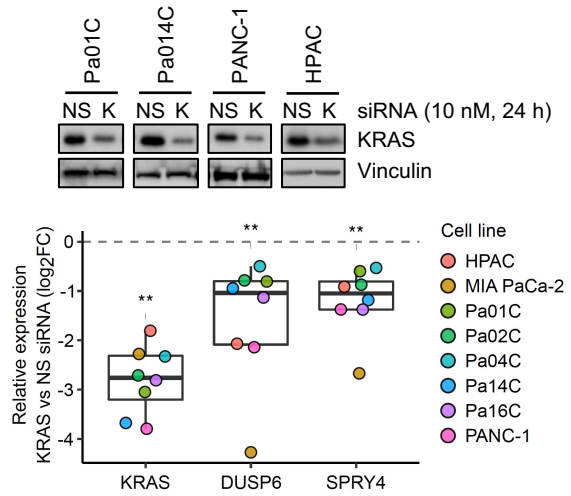
^aHomozygous; NA, not available

figure S1

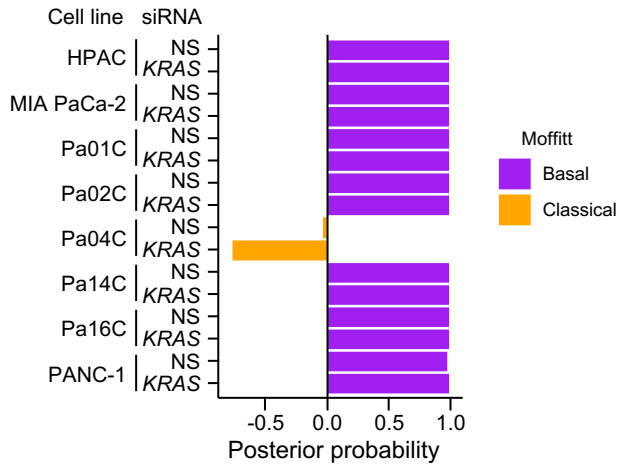
C



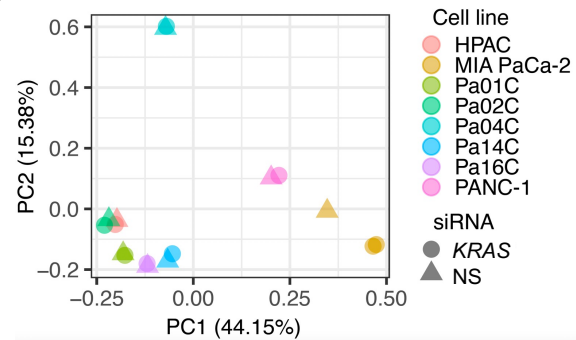
D



E



F



G

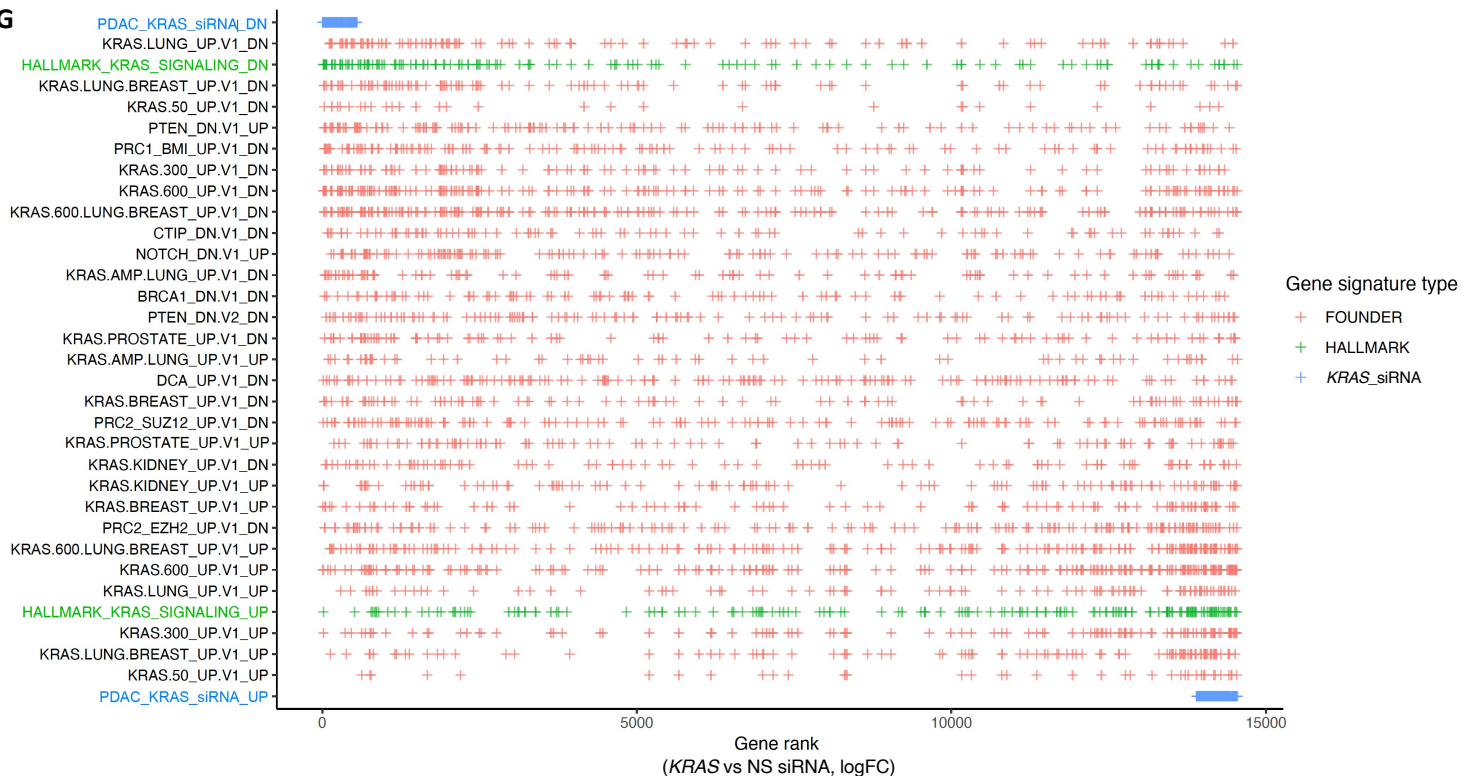
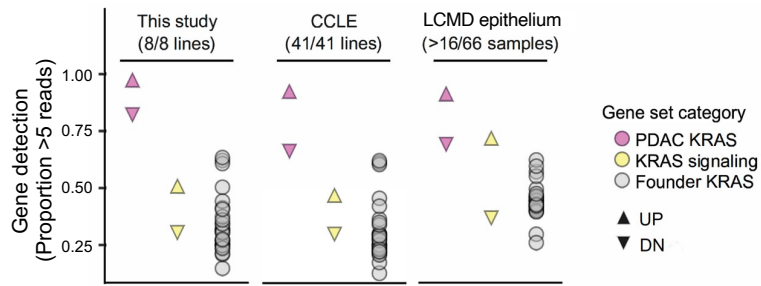


figure S1

H



I

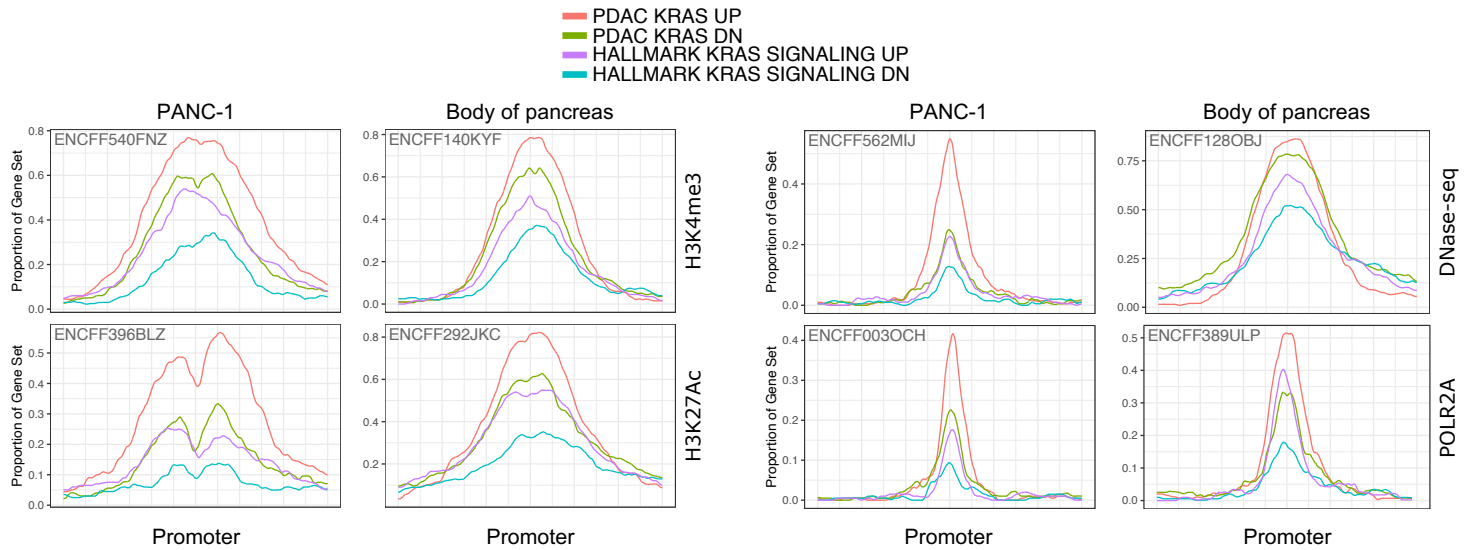


figure S1

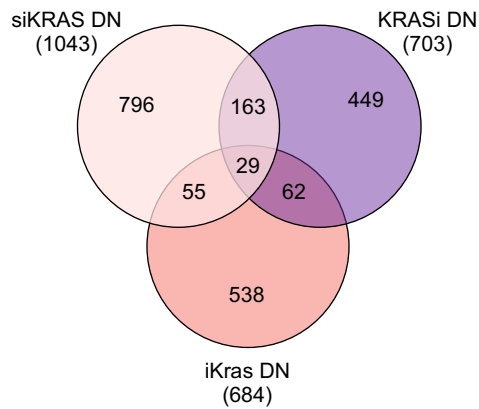
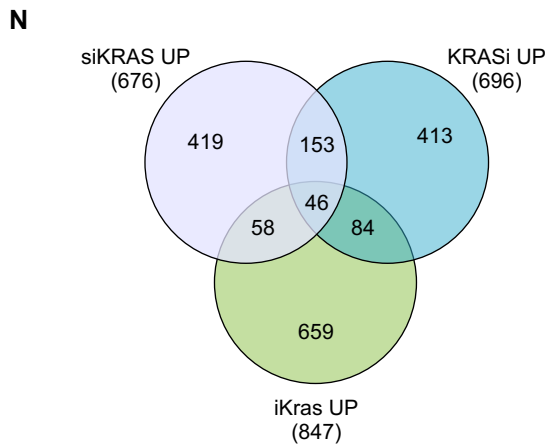
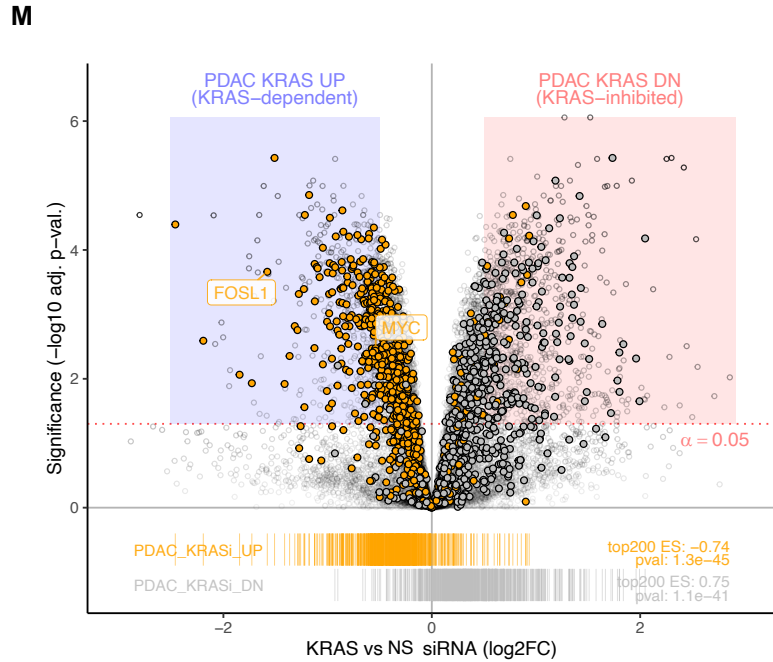
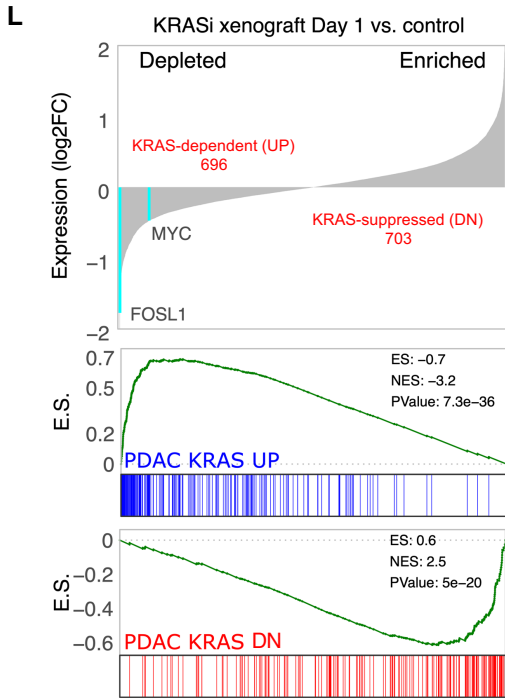
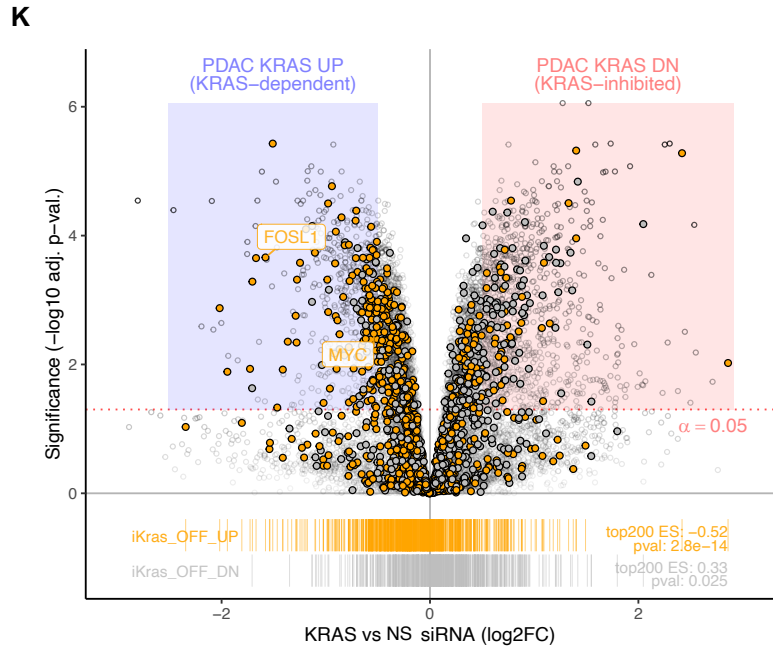
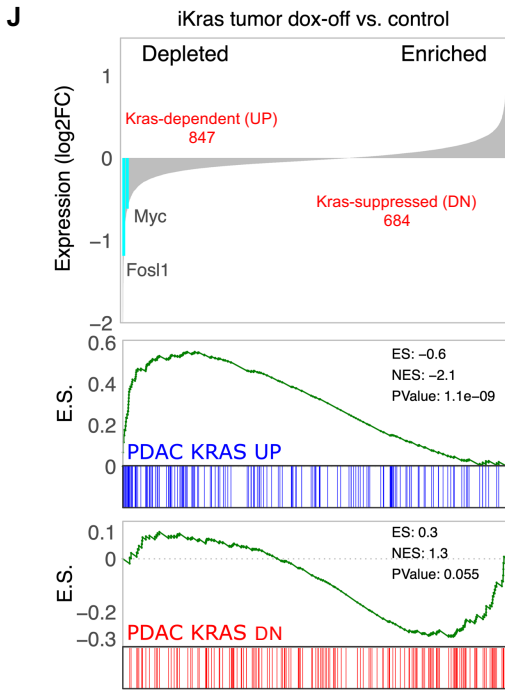
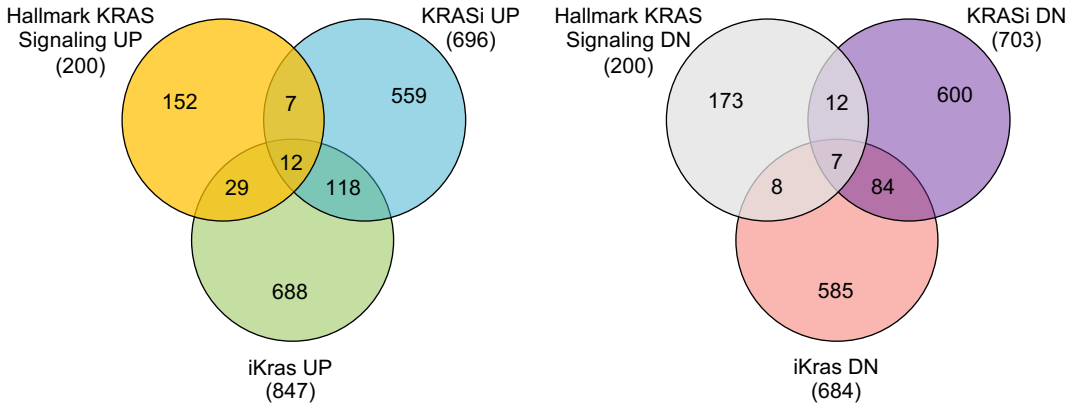


figure S1

O



P

