Supplementary Table 1. DNA sequences of expression constructs and CRISPR guides

DNA Name	DNA Sequence
Reporter constructs	
IDH2-C-VN210	ATGGCCGGCTACCTGCGGGTCGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGGCCGGCCTGGG CGCCGGCGGCCCTGACAGCCCCCACCTCGCAAGAGCAGCCGCGGCGCCACTATGCCGACAAAAG GATCAAGGTGGCGAAGCCCGTGGTGGAGATGGATGGTGATGAGATGACCCGTATTATCTGGCAGTT CATCAAGGAGAAGCTCATCCTGCCCCACGTGGACATCCAGCTAAAGTATTTTGACCTCGGGCTCCC AAACCGTGACCAGACTGATGACCAGGTCACCATTGACTCTGCACTGGCCACCCAGAAGTACAGTGT GGCTGTCAAGTGTGCCACCATCACCCCTGATGAGGCCCGTGTGGAAGAGTTCAAGCTGAAGAAGAT GTGGAAAAGTCCCAATGGAACTATCCGGAACATCCTGGGGGGGACTGTCTTCCGGGAGCCCATCAT CTGCAAAAACATCCCACGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTGGCAGGCACGCCCA TGGCGACCAGTACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAAATGGTCTTCAC CCCAAAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACTTCCCCGCAGGCGGCGTGGGCA TGGGCATGTACAACACCGACGAGTCCATCTCAGGTTTTGCGCACAGCTGCTTCCAGTATGCCATCC AGAAGAAATGGCCGCTGTACATGAGCACCAAGAACACCATACTGAAAGCCTACGATGGGCGTTTCA AGGACATCTTCCAGGAGATCTTTGACAAGCACTATAAGACCGACTTCGACAAGAATAAGATCTGGTA TGAGCACCGGCTCATTGATGACATGGTGGCTCAGGTCCTCAAGTCTTCGGGTGGCTTTGTGTGGGC CTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCCTGGCCCAGGGCTTTGGCTCCCTTGGCCT GATGACGTCCGTCCTGGTCTGCCCTGATGGGAAGACGATTGAGGCTGAGGCCGCTCATGGGACCG TCACCCGCCACTATCGGGAGCACCAGAAGGGCCGGCCCACCAGCACCAACCCCATCGCCAGCATC TTTGCCTGGACACGTGGCCTGGAGCACCGGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTT TGCCCAGATGCTGGAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTG GCGGGCTGCATTCACGGCCTCAGCAATGTGAAGCTGAACGAGCACTTCCTGAACACCACGGACTTC CTCGACACCATCAAGAGCAACCTGGACAGAGCCCTGGGCAGGCAGGGCGGAGGTGGGAGCGGTG GAGGGGGAAGTGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCT GGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTAC GGCAAGCTGACCCTGAAGCTGATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGT GACCACCCTGGGCTACGGCCTGCAGTGCTTCGCCCGCTACCCCGACCACATGAAGCAGCACGACT TCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCA ACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAG GGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCA CAACGTCTATATCACCGCCGACAAGCAGAAGAACGGCATCAAGGCCAACTTCAAGATCCGCCACAA CATCGAGGACGGCGGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCCATCGGCGACGGC CCCGTGCTGCTGCCCGACAACCACTACCTGAGCTACCAGTCCAAGCTGAGCAAAGACTAG
IDH2-C-VC210	ATGGCCGGCTACCTGCGGGTCGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGGCCGGCCTGGG CGCCGGCGGCCCTGACAGCCCCCACCTCGCAAGAGCAGCCGCGGCGCCACTATGCCGACAAAAG GATCAAGGTGGCGAAGCCCGTGGTGGAGATGGATGGTGATGAGATGACCCGTATTATCTGGCAGTT CATCAAGGAGAAGCTCATCCTGCCCCACGTGGACATCCAGCTAAAGTATTTTGACCTCGGGCTCCC AAACCGTGACCAGACTGATGACCAGGTCACCATTGACTCTGCACTGGCCACCCAGAAGTACAGTGT GGCTGTCAAGTGTGCCACCATCACCCCTGATGAGGCCCGTGTGGAAGAGTTCAAGCTGAAGAAGAT GTGGAAAAGTCCCAATGGAACTATCCGGAACATCCTGGGGGGGACTGTCTTCCGGGAGCCCATCAT CTGCAAAAACATCCCACGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTGGCAGGCACGCCCA TGGCGACCAGTACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAAATGGTCTTCAC CCCAAAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACTTCCCCGCAGGCGGCGTGGGCA TGGGCATGTACAACACCGACGAGTCCATCTCAGGTTTTGCGCACAGCTGCTTCCAGTATGCCATCC AGAAGAAATGGCCGCTGTACATGAGCACCAAGAACACCATACTGAAAGCCTACGATGGGCGTTTCA AGGACATCTTCCAGGAGATCTTTGACAAGCACTATAAGACCGACTTCGACAAGAATAAGATCTGGTA TGAGCACCGGCTCATTGATGACATGGTGGCTCAGGTCCTCAAGTCTTCGGGTGGCTTTGTGTGGGC CTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCCTGGCCCAGGGCTTTGGCTCCCTTGGCCT GATGACGTCCGTCCTGGTCTGCCCTGATGGGAAGACGATTGAGGCTGAGGCCGCTCATGGGACCG TCACCCGCCACTATCGGGAGCACCAGAAGGGCCGGCCCACCAGCACCAACCCCATCGCCAGCATC TTTGCCTGGACACGTGGCCTGGAGCACCGGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTT TGCCCAGATGCTGGAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTG GCGGGCTGCATTCACGGCCTCAGCAATGTGAAGCTGAACGAGCACTTCCTGAACACCACGGACTTC CTCGACACCATCAAGAGCAACCTGGACAGAGCCCTGGGCAGGCAGGGCGGAGGTGGGAGCGGTG GAGGGGGAAGTGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCC GGGATCACTCTCGGCATGGACGAGCTGTACAAGTAG

UQCRB-C-VN210	ATGGCTGGTAAGCAGGCCGTTTCAGCATCAGGCAAGTGGCTGGATGGTATTCGAAAATGGTATTAC AATGCTGCAGGATTCAATAAACTGGGGTTAATGCGAGATGATACAATATACGAGGATGAAGATGTAA AAGAAGCCATAAGAAGACTTCCTGAGAACCTTTATAATGACAGGATGTTTCGCATTAAGAGGGCACT GGACCTGAACTTGAAGCATCAGATCTTGCCTAAAGAGCAGTGGACCAAATATGAAGAGGAAAATTTC TACCTTGAACCGTATCTGAAAGAGGTTATTCGGGAAAGAAAAGAAAGAGAAGAATGGGCAAAGAAG GGCGGAGGTGGGAGCGGTGGAGGGGGAAGTGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTG GTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGG GCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGCTGATCTGCACCACCGGCAAGCTGCCC GTGCCCTGGCCCACCCTCGTGACCACCCTGGGCTACGGCCTGCAGTGCTTCGCCCGCTACCCCGA CCACATGAAGCAGCACGACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCAT CTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGG TGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTG GAGTACAACTACAACAGCCACAACGTCTATATCACCGCCGACAAGCAGAAGAACGGCATCAAGGCC AACTTCAAGATCCGCCACAACATCGAGGACGGCGGCGTGCAGCTCGCCGACCACTACCAGCAGAA CACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCTACCAGTCCAAGC TGAGCAAAGACTAA
UQCRC1-C-VN210	ATGGCGGCGTCCGTGGTCTGTCGGGCCGCTACCGCCGGGGCACAAGTGCTATTGCGCGCCCGCC GCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCAGTGAGCAAGGGCGAGGAGCT GTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCG TGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGCTGATCTGCACCACC GGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGGGCTACGGCCTGCAGTGCTTCGC CCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCA GGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGG GCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTG GGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTCTATATCACCGCCGACAAGCAGAAGAAC GGCATCAAGGCCAACTTCAAGATCCGCCACAACATCGAGGACGGCGGCGTGCAGCTCGCCGACCA CTACCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCT ACCAGTCCAAGCTGAGCAAAGACGGCGGAGGTGGGAGCGGTGGAGGGGGAAGTACGGCAACCTT CGCTCAGGCGCTCCAGTTCGTGCCGGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGG CCTCCGAGCAGTCCTCTCAGCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTG AGACTGAGAAGAATAATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATC GGCCTGGCAGTGCCCTGGAGAAGGAGGTGGAGAGCATGGGGGCCCATCTTAATGCCTACAGCACC CGGGAGCACACAGCTTACTACATCAAGGCGCTGTCCAAGGATCTGCCGAAAGCTGTGGAGCTCCT GGGTGACATTGTGCAGAACTGTAGTCTGGAAGACTCACAGATTGAGAAGGAACGTGATGTGATCCT GCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTACCTGCATGCCACAGC ATTCCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGCCCAGTGAGAATGTCAGGAAGCTGTCTC GTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCCTCGAATGGTGCTGGCAGCAGCTG GAGGAGTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAGCACCTCGGTGGCATCCCATGGACA TATGCAGAGGACGCTGTGCCCACTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGT GATGATGCTCTACCTTTTGCCCACGTGGCCATTGCAGTAGAGGGTCCTGGCTGGGCCAGCCCGGA CAATGTGGCCTTGCAAGTGGCCAATGCCATCATCGGCCACTATGACTGCACTTATGGTGGTGGCGT GCACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAGCTATGCCAGAGTTTCCAGACCTT CAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGACCGAATGAAAATCGA TGACATGATGTTCGTCCTGCAAGGGCAGTGGATGCGCCTGTGTACCAGTGCCACGGAGAGTGAGG TGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGT GTGAGGACATCGGACGCAGCCTCCTGACCTATGGCCGCCGCATCCCCCTGGCTGAATGGGAAAGC CGGATTGCGGAGGTGGATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGC CCAGCAGTGGCTGGATATGGCCCCATTGAGCAGCTCCCAGACTACAACCGGATCCGTAGCGGCAT GTTCTGGCTGCGCTTCTAG
COX5B-N-VC210	ATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGGCCCTGAGGGCTCGCGGCC CCAGTGGCGCGGCCGCGATGCGCTCCATGGCAGACCCCAACGAGAAGCGCGATCACATGGTCCT GCTGGAGTTCGTGACCGCCGCCGGCGGAGGTGGGAGCGGTGGAGGGGGAAGTATGGCATCTGGA GGTGGTGTTCCCACTGATGAAGAGCAGGCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAA GAAGGGACTGGACCCATACAATGTACTGGCCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTA ATTTAGTCCCCTCCATCTCCAACAAGAGAATAGTAGGCTGCATCTGTGAAGAGGACAATACCAGCGT CGTCTGGTTTTGGCTGCACAAAGGCGAGGCCCAGCGATGCCCCCGCTGTGGAGCCCATTACAAGC TGGTGCCCCAGCAGCTGGCACACTAG
COX5B-C-VC210	ATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGGCCCTGAGGGCTCGCGGCC CCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTTCCCACTGATGAAGAGCAG GCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACT GGCCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAG AATAGTAGGCTGCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGA GGCCCAGCGATGCCCCCGCTGTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACACGGC GGAGGTGGGAGCGGTGGAGGGGGAAGTGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGG AGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAG
COX7A2L-N-VC210	ATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGGCCCTGAGGGCTCGCGGCC CCAGTGGCGCGGCCGCGATGCGCTCCATGGCAGACCCCAACGAGAAGCGCGATCACATGGTCCT GCTGGAGTTCGTGACCGCCGCCGGCGGAGGTGGGAGCGGTGGAGGGGGAAGTAAGTTGGCAGGA GCATGGGCTTCGGAGGCCTATAGCCCGCAGGGATTAAAGCCTGTGGTTTCCACAGAAGCACCACCT ATCATATTTGCCACACCAACTAAACTGACCTCCGATTCCACAGTGTATGATTATGCTGGGAAAAACAA

	AGTTCCAGAGCTACAAAAGTTTTTCCAGAAAGCTGATGGTGTGCCCGTCTACCTGAAACGAGGCCT GCCTGACCAAATGCTTTACCGGACCACCATGGCGCTGACTGTGGGAGGGACCATCTACTGCCTGAT CGCCCTCTACATGGCTTCGCAGCCCAAAAACAAATAA
UQCRB-C-LgBit	ATGGCTGGTAAGCAGGCCGTTTCAGCATCAGGCAAGTGGCTGGATGGTATTCGAAAATGGTATTAC AATGCTGCAGGATTCAATAAACTGGGGTTAATGCGAGATGATACAATATACGAGGATGAAGATGTAA AAGAAGCCATAAGAAGACTTCCTGAGAACCTTTATAATGACAGGATGTTTCGCATTAAGAGGGCACT GGACCTGAACTTGAAGCATCAGATCTTGCCTAAAGAGCAGTGGACCAAATATGAAGAGGAAAATTTC TACCTTGAACCGTATCTGAAAGAGGTTATTCGGGAAAGAAAAGAAAGAGAAGAATGGGCAAAGAAG GGCGGAGGTGGGAGCGGTGGAGGGGGAAGTGTCTTCACACTCGAAGATTTCGTTGGGGACTGGG AACAGACAGCCGCCTACAACCTGGACCAAGTCCTTGAACAGGGAGGTGTGTCCAGTTTGCTGCAGA ATCTCGCCGTGTCCGTAACTCCGATCCAAAGGATTGTCCGGAGCGGTGAAAATGCCCTGAAGATCG ACATCCATGTCATCATCCCGTATGAAGGTCTGAGCGCCGACCAAATGGCCCAGATCGAAGAGGTGT TTAAGGTGGTGTACCCTGTGGATGATCATCACTTTAAGGTGATCCTGCCCTATGGCACACTGGTAAT CGACGGGGTTACGCCGAACATGCTGAACTATTTCGGACGGCCGTATGAAGGCATCGCCGTGTTCG ACGGCAAAAAGATCACTGTAACAGGGACCCTGTGGAACGGCAACAAAATTATCGACGAGCGCCTGA TCACCCCCGACGGCTCCATGCTGTTCCGAGTAACCATCAACAGCTAA
COX5B-N-SmBit	ATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGGCCCTGAGGGCTCGCGGCC CCAGTGGCGCGGCCGCGATGCGCTCCATGGCAGTGACCGGCTACCGGCTGTTCGAGGAGATTCTC GGCGGAGGTGGGAGCGGTGGAGGGGGAAGTATGGCATCTGGAGGTGGTGTTCCCACTGATGAAG AGCAGGCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAAT GTACTGGCCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAAC AAGAGAATAGTAGGCTGCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAA GGCGAGGCCCAGCGATGCCCCCGCTGTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCAC ACTAG
COX5B-C-SmBit	ATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGGCCCTGAGGGCTCGCGGCC CCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTTCCCACTGATGAAGAGCAG GCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACT GGCCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAG AATAGTAGGCTGCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGA GGCCCAGCGATGCCCCCGCTGTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACACGGC GGAGGTGGGAGCGGTGGAGGGGGAAGTGTGACCGGCTACCGGCTGTTCGAGGAGATTCTCTAA

CRISPR sgRNAs	
NTC_F	caccgCTGAAGGTGTCTGGCAGAGC
NTC_R	aaacGCTCTGCCAGACACCTTCAGc
SCAF1_F	caccgGCAGAAGTTGGCAGGAGCAT
SCAF1_R	aaacATGCTCCTGCCAACTTCTGCc
HIGD2A_F	caccgACTTACCTATGGGTACCACC
HIGD2A_R	aaacGGTGGTACCCATAGGTAAGTc
DHODH_F	caccgATCTCCCGTGGCCATCAGGT
DHODH_R	aaacACCTGATGGCCACGGGAGATc
FAR1_F	caccgAGCACTAATCCTTTCCACTG
FAR1_R	aaacCAGTGGAAAGGATTAGTGCTc
AGPS_g1_F	caccgCAATTTGACAGCTCATGTAG
AGPS_g1_R	aaacCTACATGAGCTGTCAAATTGc
AGPS_g2_F	caccgGTACCAATGAGTGCAAAGCG
AGPS_g2_R	aaacCGCTTTGCACTCATTGGTACc

Expression constructs	

FAR1 (CRISPR resistant)	atggtttcaatcccagaatactatgaaggcaagaacgtcctcctcacaggagctaccggttttctagggaaggtgcttctggaaaagttgctgaggtc ttgtcctaaggtgaattcagtatatgttttggtgaggcagaaagctggacagacaccacaagagcgagtggaagaagtccttagtggcaagctttttg acagattgagagatgaaaatccagattttagagagaaaattatagcaatcaacagcgaactcacccaacctaaactggctctcagtgaagaaga taaagaggtgatcatagattctaccaatattatattccactgtgcagctacagtaaggtttaatgaaaatttaagagatgctgttcagttaaatgtgattg caacgcgacagcttattctccttgcacaacaaatgaagaatctggaagtgttcatgcatgtatcaacagcatatgcctactgtaatcgcaagcatatt gatgaagtagtctatccaccacctgtggatcccaagaagctgattgattctttagagtggatggatgatggcctagtaaatgatatcacgccaaaatt gataggagacagacctaatacatacatatacacaaaagcattggcagaatatgttgtacaacaagaaggagcaaaactaaatgtggcaattgta aggccatcgattgttggtgccagttggaaagaacctttccaggatggattgataactttaatggaccaagtggtctctttattgcggcagggaaagga attcttcgaacaatacgtgcctccaacaatgcccttgcagatcttgttcctgtagatgtagttgtcaacatgagtcttgcggcagcctggtattccggagtt aatagaccaagaaacatcatggtgtataattgtacaacaggcTCCacAaaCccCttTcaTtggggtgaagttgagtaccatgtaatttccacttt caagaggaatcctctcgaacaggccttcagacggcccaatgtaaatctaacctccaatcatcttttatatcattactggattgctgtaagccataaggc cccagcattcctgtatgatatctacctcaggatgactggaagaagcccaaggatgatgaaaacaataactcgtcttcacaaagctatggtgtttcttg aatatttcacaagtaattcttgggtttggaatactgagaatgtcaatatgttaatgaatcaactaaaccctgaagataaaaagaccttcaatattgatgt acggcagttacattgggcagaatatatagagaactactgcttgggaactaagaagtacgtattgaatgaagaaatgtctggcctccctgcagccag aaaacatctgaacaagttgcggaatatacgttatggttttaatactatccttgtgatcctcatctggcgcatttttattgcaagatcacaaatggcaagaa atatctggtactttgtggttagtctgtgttacaagtttttgtcatacttccgagcatccagcactatgagatactga

Supplementary Table 2. Small molecule screening data

Category	Parameter	Description
Assay	Type of assay	Luminescent/fluorescent plate reader assay
	Target	NanoBit luminescence per cell
	Primary measurement	Luminescence
	Key reagents	NanoGlo Live Cell Assay System (Promega, N2012)
	Assay protocol	Cells resuspended in DMEM high glucose (HyClone) supplemented with 10% FBS, 1% P/S, and 1 mM pyruvate were seeded into 384-well plates (Corning, 3765) at a density of 1,000 cells/well in 30 µl. Compounds dissolved in DMSO were pin replicated (33 nl) into 384-well plates containing seeded cells and incubated at 37°C with 5% CO_2 for two days. On the day of analysis, 10 µl of Hoescht solution dissolved in PBS was added to each well (5 µg/ml final) and incubated at room temperature for 30 minutes. Hoescht imaging and cell counting was performed using the TTPLabTech Acumen eX3/HCI. Next, 20 µl of NanoGlo solution was added to each well and incubated on a shaker for 10 minutes. A white plate seal (Sigma Aldrich, Z732117) was attached to the bottom of each plate and luminescence was measured twice/well using Perkin Elmer EnVision plate reader.
	Additional comments	
Library	Library size	4,703 compound wells
	Library composition	Known bioactive compounds
	Source	Various
	Additional comments	https://iccb.med.harvard.edu/compound-libraries
Screen	Format	384-well
	Concentration(s) tested	~10, 2, 0.4, 0.08 µM
	Plate controls	Tunicamycin (15 nM), DMEM [0 mM glucose + 10 mM galactose + 1 mM glucosamine])
	Reagent/ compound dispensing system	Custom pin transfer workstation at ICCB-Longwood Screening Facility, Harvard Medical School
	Detection instrument and software	TTPLabTech Acumen eX3/HCI, Perkin Elmer EnVision plate reader
	Assay validation/QC	Z' factors for each assay plate
	Correction factors	
	Normalization	NanoBit luminescence was corrected by cell number (Hoescht)
	Additional comments	N/A
Post-HTS analysis	Hit criteria	z-score>1.98
	Hit rate	~2%
	Additional assay(s)	
	Confirmation of hit purity and structure	N/A
	Additional comments	N/A

Supplementary Figure 1. Gating strategy for flow cytometry (related to Fig. 4j).