SUPPORTING TABLES:

Programmable RNA-guided RNA effector proteins built from human parts

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Table S1: *E.coli* expression plasmid used in this study. Related to Figure 2.

Name:		Description:	Plasmids Map:
MBP-CIRTS-1	22-79	MBP-ORF5-TBP6.7-GGS_6-dead Pin domain	https://benchling.com/s/seq-7bLaA1P49s8a9N7a1Rkx

Table S2: Mammalian expression plasmids used in this study (promotor: cmv d0). Related to STAR Methods.

Name:		Description:	Plasmids Map:
CIRTS-0	25-60	ORF5-TBP6.7-GGS$_6$-dead Pin domain	https://benchling.com/s/seq-IE6qdJ29AolDiABVG8U9
CIRTS-1	18-48	ORF5-TBP6.7-GGS$_6$-Pin domain-NLS	https://benchling.com/s/seq-9DU44R0ZQvTUrhUX32w8
CIRTS-2	20-15	ORF5-TBP6.7-GGS$_6$-NYTHDF1	https://benchling.com/s/seq-UR8ah7oM49lHQ2mcqM80
CIRTS-3$_t$	19-05	ORF5-TBP6.7-GGS$_6$-YTHDF2 (100-200)	https://benchling.com/s/seq-7VsoN7WImEZmvMvHgQEe
CIRTS-3	26-44	ORF5-TBP6.7-GGS$_6$-YTHDF2 (1-200)	https://benchling.com/s/seq-z4qLYXLPsAxNjgJbavCc
CIRTS-4$_t$	24-47	ORF5-SLBP-GGS$_6$-YTHDF2 (100-200)	https://benchling.com/s/seq-mMJ0o9G0r3yjYHv4QSxD
CIRTS-4	27-07	ORF5-SLBP-GGS$_6$-YTHDF2 (1-200)	https://benchling.com/s/seq-OuS8wRsyHrLweV88tv5k
CIRTS-5$_t$	24-39	HBEGF-TBP6.7-GGS$_6$-YTHDF2 (100-200)	https://benchling.com/s/seq-a0T6GeDe2hYsDzsPwugA
CIRTS-5	27-02	HBEGF-TBP6.7-GGS$_6$-YTHDF2 (1-200)	https://benchling.com/s/seq-aFNu4MYfTPyKjW9TbZQM
CIRTS-6$_t$	25-02	β-defensin 3- TBP6.7-GGS$_6$-YTHDF2 (100-200)	https://benchling.com/s/seq-3ZPqMHgPbgboxWlcx2YT
CIRTS-6	27-03	β-defensin 3- TBP6.7-GGS$_6$-YTHDF2 (1-200)	https://benchling.com/s/seq-wSPzyjo1yHbYTgenr1jQ
CIRTS-7	31-51	β-defensin 3-TBP6.7-GGS$_6$-hADAR(299-701)	https://benchling.com/s/seq-SyiXQTPzSnjadd3x0qh9
CIRTS-8	31-62	β-defensin 3-TBP6.7-GGS$_6$-hADAR (299-701) E488Q	https://benchling.com/s/seq-mWe7CL35RW9slYljS9cg
CIRTS-9	30-31	β-defensin 3-SLBP-GGS$_6$-NYTHDF1	https://benchling.com/s/seq-RTNTinLtTd8hEX5k29Xs
CIRTS-10	26-79	β-defensin 3-SLBP-GGS$_6$-YTHDF2 (1-200)	https://benchling.com/s/seq-8kQOT9WeZAnbnpSkTGUo
CIRTS-11	18-17	TBP6.7-GGS$_6$- Pin domain-NES	https://benchling.com/s/seq-ohQaN4BzdYfWL4BRkm45
CIRTS-12	18-12	ORF5-TBP6.7-GGS$_6$-Pin domain-NES	https://benchling.com/s/seq-oAGtkJLww8cDVB1lEQFN
CIRTS-13	18-63	ORF5-TBP6.7-GGS$_3$-Pin domain	https://benchling.com/s/seq-aPGNWXR4XqcRtSiiKdCU
CIRTS-14	18-65	ORF5-TBP6.7-L8- Pin domain	https://benchling.com/s/seq-EYvRVoETWEGtmnr9WQsd
CIRTS-15	19-63	ORF5-TBP6.7-helical-Pin domain-NES	https://benchling.com/s/seq-m0RRWSGmHas90Nvr9k7J
CIRTS-16	20-35	ORF5-TBP6.7-L8-Y2(100-200)	https://benchling.com/s/seq-9x8CdTanwK1NvT8NWh4Z
CIRTS-17	20-39	ORF5-TBP6.7-helical-Y2(100-200)	https://benchling.com/s/seq-c6WZR6ccafdlEThrMUQq

CIRTS-18	25-20	ORF5-PP7-Y2(100-200)	https://benchling.com/s/seq-VzspV3sWZJxL5wWdIUN0

Table S3: Full gRNA vectors used in this study (all gRNAs have a hU6 promoter). Related to STAR Methods.

Name:		Description:	Plasmids Map:
TBP-NT	25-61	TBP6.7 non-targeting gRNA λ phage	https://benchling.com/s/seq-HulPL4ZTruDzKqvVGRmS
SLBP-NT	24-18	SLBP non-targeting gRNA λ phage	https://benchling.com/s/seq-13JVjbKsEPsI7e0mN9GP
PP7-NT	24-79	PP7 non-targeting gRNA λ phage	https://benchling.com/s/seq-eksSYdn2lRWnSQAR9z2X

Table S4: gRNA guiding sequencing; all used in the same hU6 promoter as TBP-OT. Related to STAR Methods.

Target name:		Guiding Sequence:	Fig:
Fluciferase-40	18-20	CAGGTCGACTCTAGACTCGAGGCTAGCGAGCTCGTTTAAA	3
PPIB	23-26	CTTGGTGCTCTCCACCTTCCGCACCACCTCCATGCCCTCT	5
SMARCA4	23-25	CCGATGCGGTGGGCTCGGTCCTGCGCTTGCAGGTCCTGGT	5
NFKB1	22-67	GCCTCCACCAGCTCTCTGACTGTACCCCCAGAGACCTCAT	5
NRAS	25-30	AAGCATCTTCAACACCCTGTCTGGTCTTGGCTGAGGTTTC	5
B4GALTN1	24-50	CTTCGCACCGCAGCGCAGCGCGGCTCAGCTCCCGGCTCGT	5
SMARCA4-1	27-67	GGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCC	6
SMARCA4-2	27-71	GCCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAG	6
SMARCA4-3	27-74	CCTCCCAAGCCCTGGCCTGAAGGACCCATGGCGAATGCTG	6
SMARCA4-4	27-75	CGTCCCACCCGCCGCCTCGCCCGTGATGCCACCGCAGACC	6
SMARCA4-5	27-78	GGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAG	6
SMARCA4-6	27-80	TCACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCAC	6
SMARCA4-7	27-81	CATGGCTGAAGATGAGGAGGGGTACCGCAAGCTCATCGAC	6
SMARCA4-8	28-02	CTCTGGACGAGACCAGCCAGATGAGCGACCTCCCGGTGAA	6
SMARCA4-9	28-04	CCCACCCTGCCCGTGGAGGAGAAGAAGAAGATTCCAGATC	6
SMARCA4-10	28-05	AATATGGCGTGTCCCAGGCCCTTGCACGTGGCCTGCAGTC	6
SMARCA4-11	28-07	CTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGC	6
SMARCA4-12	28-08	TGGTGAAGGTGTCTTACAAGGGATCCCCAGCAGCAAGACG	6
SMARCA4-13	28-10	ACCCCGCCGCCTGCTGCTGACGGGCACACCGCTGCAGAAC	6
SMARCA4-14	28-11	CAGTGGTTTAACGCACCCTTTGCCATGACCGGGGAAAAGG	6
SMARCA4-15	28-12	ACGACTCAAGAAGGAAGTCGAGGCCCAGTTGCCCGAAAAG	6
SMARCA4-16	28-16	GGAACCACGAAGGCGGAGGACCGGGGCATGCTGCTGAAAA	6
SMARCA4-17	28-20	CGCCAGCGGGCGTCAACCCCGACTTGGAGGAGCCACCTCT	6
SMARCA4-18	28-26	TGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAG	6

SMARCA4-19	28-27	CTTCAAGAAGATAAAGGAGCGCATTCGCAACCACAAGTAC	6
SMARCA4-20	28-30	AGGGTCCCGAGCCAAGCCGGTCGTGAGTGACGATGACAGT	6
SMARCA4-21	28-32	TATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTG	6
SMARCA4-22	28-33	GGGGAACACACGATACCTGTTTTTCTTTTCCGTTGCTGGC	6
Fluciferase-20		CTAGACTCGAGGCTAGCGAG	S3
Fluciferase-30		CGACTCTAGACTCGAGGCTAGCGAGCTCGT	S3
MALAT1-1	30-36	ATGCTAGCTTGGCCAAGTCTGTTATGTTCACCTGAAAAAG	S4A
MALAT1-2	30-37	CACCAGCAAAATGTACTCAGCTTCAATCACAAATACGACT	S4A
MALAT1-3	30-38	TTTTGTGGTTATAGCTTGACAAGCAATTAACTTTAAAATG	S4A
KRAS-2	22-45	CTTGTGGTAGTTGGAGCTGA	S5B
KRAS-3	22-53	AGTTGGAGCTGATGGCGTAG	S5B
KRAS-4	22-54	GTTGGAGCTGATGGCGTAGG	S5B
KRAS-5	22-65	TGGCGTAGGCAAGAGTGCCT	S5B
KRAS-6	22-66	GGCGTAGGCAAGAGTGCCTT	S5B

Table S5: qPCR Primers. Related to STAR Methods.

Gene Name:		Forward:	Reverse:
GAPDH		GTCTCCTCTGACTTCAACAGCG	ACCACCCTGTTGCTGTAGCCAA
PPIB		AACGCAGGCAAAGACACCAACG	TCTGTCTTGGTGCTCTCCACCT
Fluciferase		AGGTTACAACCGCCAAGAAGC	ATGAGAATCTCGCGGATCTTG
NFKB1		GCAGCACTACTTCTTGACCACC	TCTGCTCCTGAGCATTGACGTC
NRAS		GAAACCTCAGCCAAGACCAGAC	GGCAATCCCATACAACCCTGAG
B4GALTN1		TGAGGCTGCTTTCACTATCCGC	GAGGAAGGTCTTGGTGGCAATC
SMARCA4		CAAAGACAAGCACATCCTCGCC	GCCACATAGTGCGTGTTGAGCA
MALAT1		GAAGAAGGAAGGAGCGCTAA	CCTGCTACCTTCATCACCAA