

Table S1. Summary of sequencing experiments.

ID / Flowcell	Experiment	Description	Total reads
CRVR5ANXX	RNA-seq	<i>NAT10</i> ^{-/-A} Rep1	70,870,840
		<i>NAT10</i> ^{-/-A} Rep2	64,105,560
		HeLa WT Rep1	62,061,974
		HeLa WT Rep2	52,654,720
C9VRPANXX	acRIP-Seq Rep 1	HeLa WT IgG IP	117,322,836
		<i>NAT10</i> ^{-/-A} and <i>C</i> Input	92,193,132
		HeLa WT ac4C RIP	108,156,900
		<i>NAT10</i> ^{-/-A} and <i>C</i> ac4C RIP	94,943,490
		HeLa WT Input	89,620,366
CB7Y4ANXX	acRIP-Seq Rep 2	HeLa WT Input	87,824,004
		HeLa WT acRIP	113,041,578
		<i>NAT10</i> ^{-/-A} Input	98,345,548
		<i>NAT10</i> ^{-/-A} acRIP	80,770,464
HHCYBGX2, HHJ3BGX2, HHJHGBGX2	Ribo-Seq	HeLa WT Rep-1 Ribo-footprint	147,784,518
		HeLa WT Rep-2 Ribo-footprint	156,328,500
		<i>NAT10</i> ^{-/-A} Rep-1 Ribo-footprint	180,218,024
		<i>NAT10</i> ^{-/-A} Rep-2 Ribo-footprint	178,700,707
		HeLa WT Rep-1 Ctrl	81,676,459
		HeLa WT Rep-2 Ctrl	75,982,588
		<i>NAT10</i> ^{-/-A} Rep-1 Ctrl	74,935,693
		<i>NAT10</i> ^{-/-A} Rep-2 Ctrl	84,636,027
CBT9PANXX, CBU89ANXX	BRIC-Seq	HeLa Parental WT Rep-1 T0	71,381,686
		HeLa Parental WT Rep-1 T2	193,753,944
		HeLa Parental WT Rep-1 T4	73,353,064
		HeLa Parental WT Rep-1 T8	83,199,216
		HeLa Parental WT Rep-1 T16	88,427,426
		HeLa Parental WT Rep-2 T0	84,793,404
		HeLa Parental WT Rep-2 T2	62,455,242
		HeLa Parental WT Rep-2 T4	62,828,448
		HeLa Parental WT Rep-2 T8	64,225,912
		HeLa Parental WT Rep-2 T16	61,473,798
		<i>NAT10</i> ^{-/-A} 0hr	71,109,080
		<i>NAT10</i> ^{-/-A} 16hr	81,980,178
		<i>NAT10</i> ^{-/-A} 2hr	78,753,196
		<i>NAT10</i> ^{-/-A} 4hr	77,351,296
		<i>NAT10</i> ^{-/-A} 8hr	71,572,478
		<i>NAT10</i> ^{-/-A-2} 0hr	58,854,752
		<i>NAT10</i> ^{-/-A-2} 2hr	79,710,618
		<i>NAT10</i> ^{-/-A-2} 4hr	71,609,264
		<i>NAT10</i> ^{-/-A-2} 8hr	80,302,838
		<i>NAT10</i> ^{-/-A-2} 16hr	79,270,294