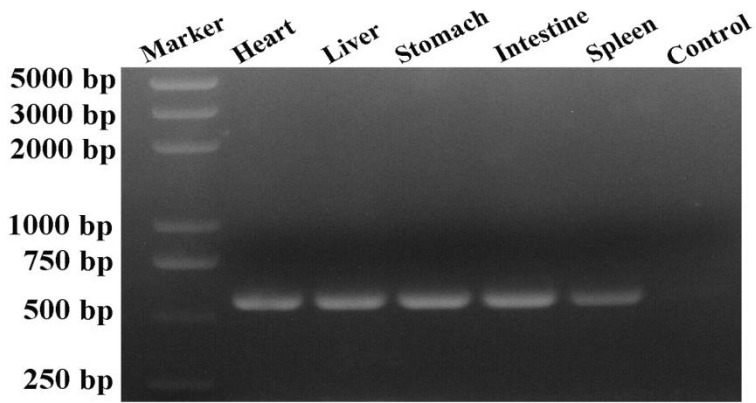


Figure S1.

A



B



C



Figure S3.

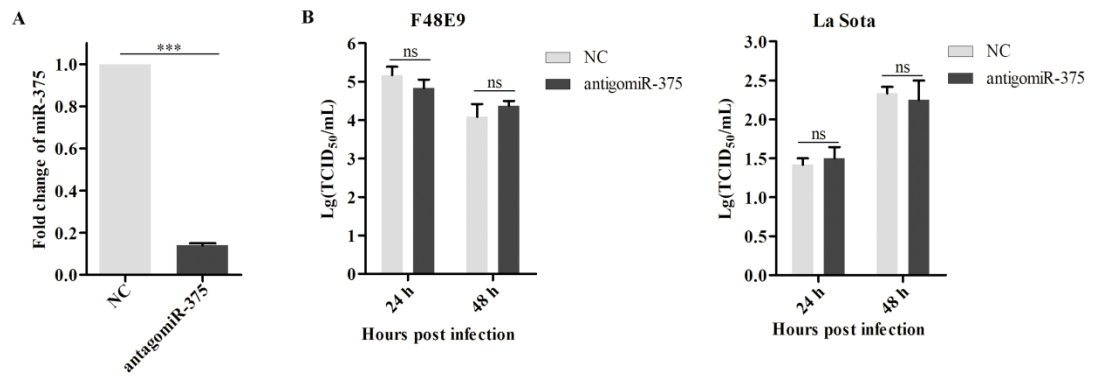


Table S1 The differentially expressed miRNA during NDV infection

miRNA name	Control	La Sota	F48E9
gga-let-7c-3p	28.34919463	28.98953538	6.759841136
gga-miR-10a-3p	219.7062584	292.8839656	118.4960387
gga-miR-10b-3p	63.05251908	54.69159767	0.795275428
gga-miR-10b-5p	28729.22047	18716.48085	675.5864759
gga-miR-122-3p	0.244389609	261.5035408	252.1023106
gga-miR-122-5p	48.38914255	69647.80703	57517.50004
gga-miR-124a-3p	71.850545	3.885195463	3.976377139
gga-miR-124c-3p	43.99012959	5.977223789	1.192913142
gga-miR-124c-5p	33.48137641	2.092028326	1.988188569
gga-miR-126-3p	6962.659956	16641.18875	10717.5293
gga-miR-126-5p	664.4953465	1118.637432	1485.972137
gga-miR-128-1-5p	48.14475294	36.7599263	17.89369712
gga-miR-128-3p	7535.02042	5971.246565	3330.613491
gga-miR-133a-3p	3709.834262	860.4213644	4398.270753
gga-miR-133a-5p	415.9511143	31.97814727	132.4133587
gga-miR-133b	765.9170341	38.85195463	255.2834123
gga-miR-133c-3p	1378.357394	227.4333652	1559.535114
gga-miR-135a-2-3p	10.9975324	1.793167137	0.397637714
gga-miR-135a-5p	90.17976566	50.8064022	36.98030739
gga-miR-137-3p	33.97015563	26.59864586	13.12204456
gga-miR-140-3p	27842.81936	3170.020636	3906.392901
gga-miR-140-5p	4637.048438	604.297325	541.5825663
gga-miR-144-3p	315.7513746	252.5377051	734.0392198
gga-miR-144-5p	368.7839198	241.4798411	807.2045592
gga-miR-146a-5p	85.29197349	136.5795636	259.2597894
gga-miR-146b-5p	469.9612178	730.416747	1404.854043
gga-miR-147	13.19703888	62.76084978	39.36613367
gga-miR-148a-5p	217.2623623	272.5614048	112.9291107
gga-miR-155	29.08236345	0.896583568	9.543305133
gga-miR-16-1-3p	33.2369868	12.85103115	26.24408912
gga-miR-1662	169.3619989	779.7288432	576.9723228
gga-miR-1684a-3p	0	27.19636824	0
gga-miR-1779	21.75067519	8.368113304	2.385826283
gga-miR-1786	29.81553228	53.7950141	11.92913142
gga-miR-183	1482.467367	137.7750083	81.91336906
gga-miR-184-3p	94.08999941	154.5112349	735.6297707
gga-miR-187-3p	137.3469602	580.0895687	374.1770888
gga-miR-18b-5p	117.3070122	124.9239772	56.86219308

gga-miR-193b-3p	62.31935026	196.0529403	213.1338146
gga-miR-194	17.10727262	538.5478634	26.24408912
gga-miR-196-5p	32.25942837	131.4989234	1.590550855
gga-miR-199-5p	37572.70285	20537.14322	16855.86269
gga-miR-1a-3p	69903.98177	7443.735645	88138.78511
gga-miR-1b-3p	723.6376318	4448.847666	9589.828745
gga-miR-200a-3p	3913.410806	8633.203179	2713.082122
gga-miR-200b-3p	1819.236248	3979.037876	1860.546863
gga-miR-202-3p	0.244389609	18.23053256	0
gga-miR-202-5p	1.466337653	705.6112683	0.795275428
gga-miR-203a	16895.38683	934.8378006	156.6692593
gga-miR-204	133.1923368	45.12803961	31.01574168
gga-miR-205a	7024.001748	619.2403845	104.181081
gga-miR-205b	394.2004391	180.8110196	61.63384565
gga-miR-206	12734.89813	84.57771661	21.87007426
gga-miR-21-3p	8.309246701	9.563558062	26.24408912
gga-miR-21-5p	36566.06205	54379.58659	106226.5294
gga-miR-215-5p	84.31441505	3655.371208	118.8936764
gga-miR-2188-5p	414.7291662	269.8716541	1076.405291
gga-miR-22-3p	1221.948044	2962.610971	1174.621807
gga-miR-222a	943.3438901	1859.215459	1679.621703
gga-miR-222b-5p	1.221948044	1.793167137	22.66534969
gga-miR-223	40.07989585	37.35764868	85.8897462
gga-miR-301a-5p	83.09246701	125.2228384	51.29526509
gga-miR-301b-5p	74.78322031	99.52077608	42.14959767
gga-miR-30b-5p	406.1755299	871.1803672	594.8660199
gga-miR-30d	14004.99092	27509.87363	20544.35012
gga-miR-30e-3p	393.4672702	711.2896309	716.9407981
gga-miR-30e-5p	6727.312763	14831.88311	10181.51366
gga-miR-31-5p	34.70332446	284.8147135	199.2164946
gga-miR-32-5p	129.5264927	256.7217617	160.2479987
gga-miR-34a-5p	95.06755784	294.3782716	302.6023003
gga-miR-34b-5p	24.43896088	119.843337	83.50391991
gga-miR-34c-5p	10.26436357	50.8064022	40.1614091
gga-miR-3525	20.52872714	50.20867983	35.38975653
gga-miR-3529	59.38667495	30.48384132	12.32676913
gga-miR-3536	4.399012959	2.390889516	14.71259541
gga-miR-375	27.86041541	1419.59065	629.0628633
gga-miR-383-5p	33.97015563	13.44875352	5.566927994
gga-miR-429-3p	420.3501272	988.9316758	574.1888588

gga-miR-449a	13.9302077	223.5481697	49.70471423
gga-miR-451	3049.982318	2024.186836	7119.703267
gga-miR-455-3p	299.6216604	110.2797789	183.3109861
gga-miR-455-5p	1271.070356	520.616192	442.9684133
gga-miR-458a-3p	193.3121806	471.9018181	749.5470906
gga-miR-458b-5p	192.3346222	468.9132062	741.1966987
gga-miR-460a-3p	10.01997396	23.61003397	5.566927994
gga-miR-460a-5p	779.114073	1243.561409	281.5275014
gga-miR-460b-5p	42.76818155	98.9230537	62.03148336
gga-miR-490-3p	50.83303864	68.73807357	440.9802247
gga-miR-490-5p	1.466337653	1.793167137	15.11023313
gga-miR-499-3p	34.94771407	1.494305947	129.232257
gga-miR-499-5p	26951.04167	480.8676538	88774.60781
gga-miR-6548-3p	9.775584354	0	1.590550855
gga-miR-7	5978.258612	12001.96651	6667.986824
gga-miR-7460-3p	0.977558435	38.55309344	7.555116564
gga-miR-9-3p	1483.689315	48.41551269	13.91731999
gga-miR-9-5p	51510.73103	2655.680529	2841.519103
novel_359	0	0	22.26771198
novel_41	1810.682612	3170.618359	3701.211841

Table S2 The predicted host target genes of miR-375

Target gene	Gene name	Representative miRNA	Total context++ score	Aggregate PCT
ELAVL4	ELAV like neuron-specific RNA binding protein 4	gga-miR-375	-0.67	0.58
EIF4G3	eukaryotic translation initiation factor 4 gamma, 3	gga-miR-375	-0.43	0.58
C19orf44	chromosome 19 open reading frame 44	gga-miR-375	-0.31	0.36
VTI1A	vesicle transport through interaction with t-SNAREs 1A	gga-miR-375	-0.35	0.36
RASGEF1B	RasGEF domain family, member 1B	gga-miR-375	-0.27	0.38
MEIS1	Meis homeobox 1	gga-miR-375	-0.27	0.35
CEPT1	choline/ethanolamine phosphotransferase 1	gga-miR-375	-0.26	0.35
VAT1L	vesicle amine transport 1-like	gga-miR-375	-0.25	0.36
LHX9	LIM homeobox 9	gga-miR-375	-0.26	< 0.1
HOXA3	homeobox A3	gga-miR-375	-0.22	0.36
EIF4H	eukaryotic translation initiation factor 4H	gga-miR-375	-0.21	0.35
GPATCH2L	G patch domain containing 2-like	gga-miR-375	-0.24	0.36
GRIK2	glutamate receptor, ionotropic, kainate 2	gga-miR-375	-0.21	0.35
PAX6	paired box 6	gga-miR-375	-0.24	0.36
YAP1	Yes-associated protein 1	gga-miR-375	-0.3	0.54
ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	gga-miR-375	-0.21	0.36
EBF3	early B-cell factor 3	gga-miR-375	-0.2	0.35
PDGFA	platelet-derived growth factor alpha polypeptide	gga-miR-375	-0.45	0.54
MLK4	Mitogen-activated protein kinase kinase kinase MLK4	gga-miR-375	-0.2	0.36
ATXN7	ataxin 7	gga-miR-375	-0.27	0.73
KLF5	Kruppel-like factor 5 (intestinal)	gga-miR-375	-0.19	0.35

RASD1	RAS, dexamethasone-induced 1	gga-miR-375	-0.19	0.36
EPB41L2	erythrocyte membrane protein band 4.1-like 2	gga-miR-375	-0.19	0.35
ZBTB20	zinc finger and BTB domain containing 20	gga-miR-375	-0.19	0.58
TSC1	tuberous sclerosis 1	gga-miR-375	-0.19	0.46
UBE3A	ubiquitin protein ligase E3A	gga-miR-375	-0.17	0.36
NR5A2	nuclear receptor subfamily 5, group A, member 2	gga-miR-375	-0.17	0.37
RBPJ	recombination signal binding protein for immunoglobulin kappa J region	gga-miR-375	-0.22	0.51
KLF4	Kruppel-like factor 4 (gut)	gga-miR-375	-0.16	0.36
PIAS1	protein inhibitor of activated STAT, 1	gga-miR-375	-0.18	0.36
PRKD1	protein kinase D1	gga-miR-375	-0.16	0.36
ZFPM2	zinc finger protein, FOG family member 2	gga-miR-375	-0.15	0.35
SOX6	SRY (sex determining region Y)-box 6	gga-miR-375	-0.2	0.64
HS3ST3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	gga-miR-375	-0.15	0.36
SGMS1	sphingomyelin synthase 1	gga-miR-375	-0.15	0.34
QKI	QKI, KH domain containing, RNA binding	gga-miR-375	-0.43	0.91
TMEM55A	transmembrane protein 55A	gga-miR-375	-0.22	0.36
EPHA4	EPH receptor A4	gga-miR-375	-0.17	0.32
HIVEP2	human immunodeficiency virus type I enhancer binding protein 2	gga-miR-375	-0.14	0.35
EVI5	ecotropic viral integration site 5	gga-miR-375	-0.14	0.36
CYP7B1	cytochrome P450, family 7, subfamily B, polypeptide 1	gga-miR-375	-0.15	0.35
AZI2	5-azacytidine induced 2	gga-miR-375	-0.23	0.36
RBM47	RNA binding motif protein 47	gga-miR-375	-0.15	0.36
ELAVL2	ELAV like neuron-specific RNA binding protein 2	gga-miR-375	-0.14	0.35

TCF12	transcription factor 12	gga-miR-375	-0.27	0.6
SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	gga-miR-375	-0.13	< 0.1
TMEM65	transmembrane protein 65	gga-miR-375	-0.22	0.35
PDE4D	phosphodiesterase 4D, cAMP-specific	gga-miR-375	-0.12	0.36
SLC35F1	solute carrier family 35, member F1	gga-miR-375	-0.23	0.38
BNC2	basonuclin 2	gga-miR-375	-0.1	0.35
C3orf38	chromosome 3 open reading frame 38	gga-miR-375	-0.18	ORF
TRPS1	trichorhinophalangeal syndrome I	gga-miR-375	-0.1	0.36
ATXN7L1	ataxin 7-like 1	gga-miR-375	-0.11	0.35
YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	gga-miR-375	-0.36	0.36
PLXNA4	plexin A4	gga-miR-375	-0.17	0.36
GRM5	glutamate receptor, metabotropic 5	gga-miR-375	-0.09	0.36
ERC1	ELKS/RAB6-interacting/CAST family member 1	gga-miR-375	-0.09	0.36
PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	gga-miR-375	-0.11	< 0.1
EHMT1	euchromatic histone-lysine N-methyltransferase 1	gga-miR-375	-0.12	0.36
CTBP2	C-terminal binding protein 2	gga-miR-375	-0.21	0.37
SOCS4	suppressor of cytokine signaling 4	gga-miR-375	-0.17	0.35
AGPS	alkylglycerone phosphate synthase	gga-miR-375	-0.25	0.35
SOX21	SRY (sex determining region Y)-box 21	gga-miR-375	-0.1	0.36
NBEA	neurobeachin	gga-miR-375	-0.08	0.35
MBNL1	muscleblind-like splicing regulator 1	gga-miR-375	-0.08	0.42
MBNL3	muscleblind-like splicing regulator 3	gga-miR-375	-0.1	0.36

CASZ1	castor zinc finger 1	gga-miR-375	-0.08	0.36
GREB1L	growth regulation by estrogen in breast cancer-like	gga-miR-375	-0.08	0.35
PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta	gga-miR-375	-0.08	0.36
UBE2E2	ubiquitin-conjugating enzyme E2E 2	gga-miR-375	-0.3	0.36
DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	gga-miR-375	-0.1	0.36
PHF15	PHD finger protein 15	gga-miR-375	-0.11	0.36
PRPF4B	pre-mRNA processing factor 4B	gga-miR-375	-0.1	0.36
SLC4A4	solute carrier family 4 (sodium bicarbonate cotransporter), member 4	gga-miR-375	-0.07	0.58
KLIF12	Kruppel-like factor 12	gga-miR-375	-0.07	0.36
SLC7A11	solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11	gga-miR-375	-0.26	0.36
RBM24	RNA binding motif protein 24	gga-miR-375	-0.07	< 0.1
BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	gga-miR-375	-0.06	0.36
WNT8B	wingless-type MMTV integration site family, member 8B	gga-miR-375	-0.18	0.36
INSR	insulin receptor	gga-miR-375	-0.06	0.35
KLHL3	kelch-like family member 3	gga-miR-375	-0.06	< 0.1
ATXN1	ataxin 1	gga-miR-375	-0.07	0.36
NLK	nemo-like kinase	gga-miR-375	-0.21	0.36
ABI2	abl-interactor 2	gga-miR-375	-0.17	0.36
TNPO1	transportin 1	gga-miR-375	-0.07	0.35
BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	gga-miR-375	-0.09	0.36
DACH1	dachshund homolog 1 (Drosophila)	gga-miR-375	-0.08	0.34
RBM27	RNA binding motif protein 27	gga-miR-375	-0.09	0.35
CCDC171	coiled-coil domain containing 171	gga-miR-375	-0.1	0.36

FAM168B	family with sequence similarity 168, member B	gga-miR-375	-0.05	0.36
ATG14	autophagy related 14	gga-miR-375	-0.11	0.36
ZRANB1	zinc finger, RAN-binding domain containing 1	gga-miR-375	-0.06	0.36
MPP5	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	gga-miR-375	-0.05	0.35
PRDM16	PR domain containing 16	gga-miR-375	-0.04	0.34
KIAA1432	KIAA1432	gga-miR-375	-0.15	0.36
AEBP2	AE binding protein 2	gga-miR-375	-0.15	0.36
NUFIP2	nuclear fragile X mental retardation protein interacting protein 2	gga-miR-375	-0.07	0.36
ZFHX4	zinc finger homeobox 4	gga-miR-375	-0.01	0.36
C7orf55-LUC7L2	C7orf55-LUC7L2 readthrough	gga-miR-375	-0.18	0.36
LUC7L2	LUC7-like 2 (<i>S. cerevisiae</i>)	gga-miR-375	-0.17	0.36
PLEKHA3	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3	gga-miR-375	-0.11	0.35
MAP3K1	mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase	gga-miR-375	-0.16	0.35
NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	gga-miR-375	-0.21	0.36
YBX1	Y box binding protein 1	gga-miR-375	-0.26	0.36
YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	gga-miR-375	-0.13	0.35
CADM1	cell adhesion molecule 1	gga-miR-375	-0.16	0.36
CHD7	chromodomain helicase DNA binding protein 7	gga-miR-375	-0.07	0.36
TSC22D2	TSC22 domain family, member 2	gga-miR-375	-0.2	0.36
SOX14	SRY (sex determining region Y)-box 14	gga-miR-375	-0.14	0.35

CHSY1	chondroitin sulfate synthase 1	gga-miR-375	-0.12	0.36
GPM6A	glycoprotein M6A	gga-miR-375	-0.13	0.35
