

COVER SHEET for SUPPLEMENTAL MATERIAL

McShane et al JBSC-15-0007

Includes Supplemental Methods and Material, Figure and Tables

Supplementary Methods and Materials

Reagents, Cells and Antibodies

Rat anti-Dinitrophenyl (DNP) IgE monoclonal antibody was acquired from Biozol (BZL06936), dinitrophenyl-conjugated human serum albumin (A6661), DMSO (D2650) and Triton X-100 (T9284) were from Sigma, 4-methylumbelliferyl-N-acetyl- β -D-glucosaminide (474502) and Syk inhibitor (574711) from Calbiochem. LY294002 was from Cell Signaling.

RBL-2H3 cell line was purchased from ATCC and grown in cell culture media Supplements were obtained from Invitrogen and fetal bovine serum (A15-151) was from PAA Laboratories.

Hela Kyoto cells were grown in DMEM High Glucose (Gibco) with 10% FCS and penicillin/streptomycin.

Antibodies were all purchased from Cell Signaling (pAkt, S473 and T308, tAkt).

Phosphate buffered saline (PBS) and 1 M HEPES were provided by the in-house service facility. Tyrode's buffer (TyB) consisted of Minimum Essential Medium without Phenol Red (Invitrogen) supplemented with 2 mM L-glutamine (Invitrogen) and 20 mM HEPES. DNP-HSA was dissolved to 1 mg/ml in Millipore water. MUG substrate solution consisted of 2.5 mM 4-methylumbelliferyl-N-acetyl- β -D-glucosaminide in 0.05 M citrate, pH 4.5; stop solution was 0.1 M NaHCO₃/0.1 M Na₂CO₃, pH 10.

The BCA Protein Assay Kit (23225) was from Pierce. Other reagents were standard laboratory grade or better.

Protein Lysate and Western blotting

RBL-2H3 and HeLas lysates were made by washing the cells twice with PBS and then adding 1% Triton X-100 Tris lysis buffer (1 mM EGTA, 1 mM EDTA, 150 mM NaCl, 20 mM Tris, pH 7.5) with protease and phosphatase inhibitors added freshly. Standard procedures were used for SDS-PAGE and Western blotting.

Supplementary Figure Legend

Supplementary Figure 1: Compounds reduced both T308 and S473 phosphorylation of Akt in unstimulated RBL-2H3 cells. (A) RBL-2H3 cells were treated with vehicle, J607Y, J775Y and Miltefosine for one hour, lysates were made and run on the pAkt/tAkt MSD plates. No stimulation was performed on the cells and still decreased pAkt. (B) Representative Western blot analysis of Akt in the RBL-2H3 cells. Membranes were probed for pAkt-S473 and pAkt-T308, stripped and then reprobed for tAkt. (C) No decrease in Akt phosphorylation in compounds that had no decrease in degranulation. Compounds that did not decrease degranulation (J516E, J563Y, J776Y) also did not alter pAkt. Syk inhibitor significantly decreased pAkt. All experiments were performed in triplicate. Asterisks indicate statistical significance (ANOVA, $p \leq 0.05$).

Supplementary Table 1: Degranulation assay results and safety index ranking.

Supplementary Table 2: Parameters of the endocytic assay.

Supplementary Table 3: Endocytic profiles for each compound.

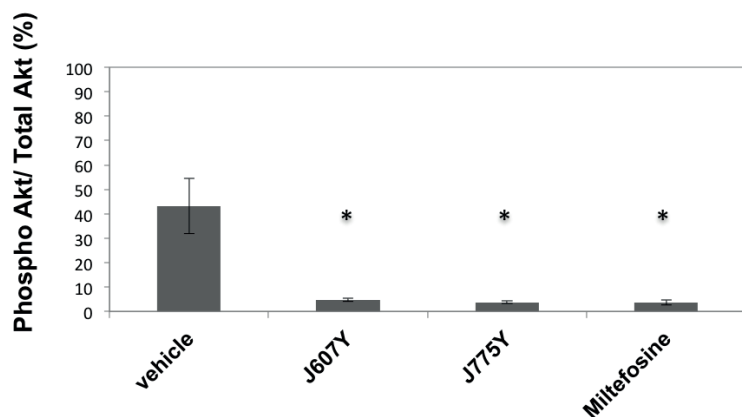
Supplementary Table 4: Compounds in each cluster.

Supplementary Table 5: Correlation results of the endocytic profiles to the genome-wide screen RNAi dataset.

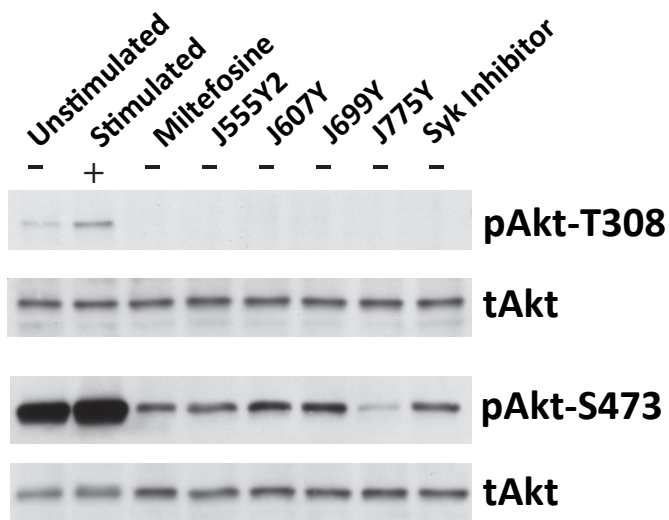
Supplementary Table 6: Enrichment results using WebGestalt.

Supplementary Figure 1. Compounds reduced both T308 and S473 phosphorylation of Akt in unstimulated RBL-2H3 cells and there is no decrease in Akt phosphorylation in compounds that show no decrease in degranulation.

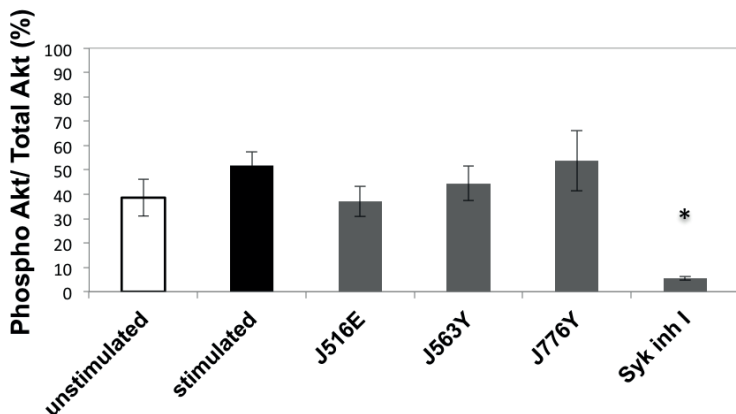
A.



B.



C.



Supplementary Table 1: Degranulation Assay Results and Safety Index Ranking

compound	% control	% inhibition	at conc (µM)
J702Y	-1.8	101.8	25
J584E	0.3	99.7	25
J555Y	1.0	99.0	25
J521Y	1.4	98.6	10
J676Y	1.4	98.6	25
J597E	1.4	98.6	25
J539C	1.9	98.1	10
J589E	2.0	98.0	25
J608E	2.0	98.0	25
J647E	2.1	97.9	25
J682Y	2.7	97.3	25
J694Y	2.9	97.1	25
J667Y	3.1	96.9	25
J678Y	3.1	96.9	25
J689Y	3.4	96.6	25
J664Y	3.4	96.6	25
J595E	4.0	96.0	10
J475E	4.0	96.0	25
J438Y	4.2	95.8	15
J509Y	4.3	95.7	25
J671Y	4.7	95.3	25
J530Y	4.7	95.3	10
J505Y	4.9	95.1	25
J507Y	4.9	95.1	25
J491C	4.9	95.1	25
J532Y	5.0	95.0	25
J607Y	5.0	95.0	25
J541E	5.2	94.8	25
J534E	5.3	94.7	10
IBS-87	5.4	94.6	25
J655Y	5.5	94.5	25
J656Y	5.5	94.5	25
J500E	5.9	94.1	25
J511Y	6.2	93.8	25
J599E	6.3	93.7	25
J546Y	7.0	93.0	10
J623E	7.0	93.0	25
J520Y	7.1	92.9	25
J453E	7.2	92.8	25
J660Y	7.2	92.8	25
J573Y	7.5	92.5	25
J670Y	7.8	92.2	25
J553E	7.9	92.1	25
J674Y	8.2	91.8	25
J683Y	8.6	91.4	25
J673Y	9.2	90.8	25
J557E	9.2	90.8	25
J680Y	9.3	90.7	25
IBS-11	9.4	90.6	25
J590Y	10.0	90.0	25
J663Y	10.0	90.0	25
J620Y	11.0	89.0	25
J626Y	11.0	89.0	25

J524Y	11.1	88.9	25
J693Y	11.4	88.6	25
J699Y	11.5	88.5	25
J550E	11.9	88.1	10
J567E	12.0	88.0	25
J575Y	12.0	88.0	25
J614Y	12.0	88.0	25
J637Y	12.0	88.0	25
J528E	12.1	87.9	25
J576E	12.3	87.7	10
J549E	12.3	87.7	10
J649Y	12.5	87.5	25
J473C	12.7	87.3	25
J545E	12.9	87.1	10
J533Y	13.0	87.0	10
J554Y	13.0	87.0	25
J677Y	13.1	86.9	25
Miltefosine	13.2	86.8	10
J653Y	13.3	86.7	25
J688Y	13.4	86.6	25
J514E	13.5	86.5	25
J686Y	14.0	86.0	25
J606E	14.0	86.0	25
J619Y	14.0	86.0	25
J625E	14.0	86.0	25
J714Y	14.5	85.5	25
IBS-16	14.6	85.4	25
J661Y	14.8	85.2	25
J588Y	15.0	85.0	10
J629E	15.0	85.0	25
J692Y	15.0	85.0	25
J525E	15.1	84.9	25
J448E	15.3	84.7	25
J551E	15.4	84.6	10
J566E	15.4	84.6	10
J668Y	15.8	84.2	25
J583E	16.0	84.0	10
J601Y	16.0	84.0	25
J627E	16.0	84.0	25
J687Y	16.0	84.0	25
J598E	16.2	83.8	25
J697Y	16.4	83.6	25
J585Y	16.5	83.5	25
J538E	16.5	83.5	25
J684Y	16.8	83.2	25
J600E	16.9	83.1	25
J622Y	17.0	83.0	25
J444C	17.4	82.6	25
J577E	17.4	82.6	10
J479Y	17.5	82.5	25
J645E	18.0	82.0	25
J666Y	18.1	81.9	25
J547E	18.1	81.9	10
J578Y	18.5	81.5	10
J610Y	19.0	81.0	25
J644Y	19.0	81.0	25

J669Y	19.3	80.7	25
J651E	19.9	80.1	25
J556Y	20.0	80.0	25
J609E	20.0	80.0	25
J616E	20.0	80.0	25
J707Y	20.2	79.8	25
J665Y	20.2	79.8	25
J681Y	20.3	79.7	25
IBS-68	20.7	79.3	25
J488Y	21.0	79.0	25
J635E	21.0	79.0	25
J720Y	21.1	78.9	25
J429E	21.2	78.8	25
J657E	22.8	77.2	25
J632E	23.0	77.0	25
IBS-63	23.5	76.5	25
J612C	24.0	76.0	25
J703Y	24.5	75.5	25
J558E	24.9	75.1	25
J634E	25.0	75.0	25
J522E	25.8	74.2	25
J543Y	26.0	74.0	25
J480Y	26.3	73.7	25
J548Y	26.5	73.5	25
J604E	26.5	73.5	25
J569E	26.6	73.4	10
J594E	28.3	71.7	25
IBS-64	28.4	71.6	25
J675Y	28.5	71.5	25
J621E	29.0	71.0	25
J711Y	29.3	70.7	25
J658E	29.5	70.5	25
J477C	29.8	70.2	25
J679Y	29.9	70.1	25
J455Y	30.4	69.6	25
J552E	31.9	68.1	25
J709Y	32.7	67.3	25
IBS-41	33.8	66.2	25
J484C	34.0	66.0	25
IBS-15	34.0	66.0	25
J469Y	35.0	65.0	25
IBS-105	35.3	64.7	25
J698Y	36.1	63.9	25
J690C	36.1	63.9	25
J615E	37.0	63.0	25
J624E	37.0	63.0	25
J672Y	37.3	62.7	25
J712Y	38.2	61.8	25
J628E	39.0	61.0	25
J646E	39.2	60.8	25
J706Y	39.3	60.7	25
J718Y	40.2	59.8	25
J633E	41.0	59.0	25
J700E	41.7	58.3	25
IBS-44	45.2	54.8	25
J705Y	46.7	53.3	25

IBS-65	48.5	51.5	25
J654Y	49.2	50.8	25
J704Y	50.8	49.2	25
IBS-23	51.9	48.1	25
IBS-83	52.1	47.9	25
J497Y	53.0	47.0	25
J586E	53.7	46.3	25
J462E	54.0	46.0	25
J419E	57.9	42.1	25
J562Y	60.3	39.7	25
J431Y	63.0	37.0	25
J485E	63.0	37.0	25
IBS-101	63.5	36.5	25
J602E	64.9	35.1	25
IBS-104	65.6	34.4	25
J715Y	65.8	34.2	25
J640E	66.1	33.9	25
J540C	66.5	33.5	25
J641E	67.0	33.0	25
J710Y	67.3	32.7	25
J568E	67.7	32.3	25
KA-4	67.8	32.2	25
J713Y	67.9	32.1	25
IBS-42	68.0	32.0	25
J518Y	68.4	31.6	25
J443E	69.0	31.0	25
J460Y	69.0	31.0	25
J708Y	70.4	29.6	25
J648E	70.7	29.3	25
IBS-66	70.7	29.3	25
J478C	71.0	29.0	25
J636Y	72.0	28.0	25
J652E	72.9	27.1	25
J529E	73.0	27.0	25
J603E	73.2	26.8	25
J537E	73.3	26.7	25
J685Y	73.4	26.6	25
J592C	74.2	25.8	25
J476S	76.0	24.0	25
J719Y	76.3	23.7	25
J650Y	76.3	23.7	25
KA-5	76.8	23.2	25
J519Y	77.3	22.7	25
KA-3	77.5	22.5	25
KA-2	78.2	21.8	25
J542E	79.0	21.0	25
IBS-46	79.5	20.5	25
J696Y	79.7	20.3	25
J531Y	80.7	19.3	25
KA-52	81.7	18.3	25
J605Y	83.5	16.5	25
J563Y	84.3	15.7	25
IBS-17	84.5	15.5	25
J482C	85.0	15.0	25
IBS-24	85.4	14.6	25
KA-10	85.9	14.1	25

J405S	85.9	14.1	25
J565Y	86.0	14.0	25
J461Y	87.0	13.0	25
J506Y	87.0	13.0	25
IBS-45	87.1	12.9	25
IBS-20	87.1	12.9	25
IBS-97	87.6	12.4	25
J593C	87.8	12.2	25
J494E	88.6	11.4	25
KA-7	89.4	10.6	25
J662C	89.5	10.5	25
IBS-35	89.5	10.5	25
IBS-50	89.5	10.5	25
IBS-56	89.7	10.3	25
J570E	90.0	10.0	25
IBS-79	90.1	9.9	25
KA-38	90.2	9.8	25
IBS-96	90.2	9.8	25
J643Y	90.7	9.3	25
IBS-43	90.7	9.3	25
J596C	90.9	9.1	25
J495Y	90.9	9.1	25
KA-53	90.9	9.1	25
J572E	91.0	9.0	25
J571E	91.1	8.9	25
IBS-98	91.1	8.9	25
IBS-106	91.5	8.5	25
J510Y	91.7	8.3	25
J428E	91.9	8.1	25
J508Y	92.5	7.5	25
KA-33	92.6	7.4	25
KA-6	92.7	7.3	25
KA-9	93.0	7.0	25
KA-32	93.2	6.8	25
KA-23	93.5	6.5	25
KA-31	93.5	6.5	25
KA-22	93.7	6.3	25
IBS-36	94.0	6.0	25
IBS-85	94.4	5.6	25
J580Y	94.4	5.6	25
J454E	95.0	5.0	25
J489Y	95.0	5.0	25
IBS-30	95.1	4.9	25
J611Y	95.1	4.9	25
J613C	95.2	4.8	25
KA-12	95.4	4.6	25
J659Y	95.5	4.5	25
IBS-58	95.9	4.1	25
J617E	96.0	4.0	25
J503E	96.0	4.0	100
J501E	96.3	3.7	100
KA-50	96.9	3.1	25
KA-37	96.9	3.1	25
J439S	96.9	3.1	25
KA-27	97.0	3.0	25
IBS-21	97.8	2.2	25

IBS-2	97.8	2.2	25
J449E	98.0	2.0	25
IBS-103	98.1	1.9	25
J582C	98.3	1.7	25
J447C	98.6	1.4	25
J430S	99.2	0.8	25
J536Y	99.4	0.6	25
J502E	99.4	0.6	100
J564Y	99.5	0.5	25
KA-30	99.8	0.2	25
J631Y	100.0	0.0	25
J559S	100.3	-0.3	25
IBS-102	100.7	-0.7	25
J486Y	101.0	-1.0	25
KA-36	101.2	-1.2	25
J437Y	101.4	-1.4	25
J561Y	101.7	-1.7	25
IBS-49	102.0	-2.0	25
IBS-100	102.7	-2.7	25
KA-14	102.7	-2.7	25
KA-25	103.0	-3.0	25
J560S	103.1	-3.1	25
J639E	103.3	-3.3	25
KA-34	103.7	-3.7	25
IBS-33	103.7	-3.7	25
KA-29	104.2	-4.2	25
J515Y	104.3	-4.3	25
IBS-47	104.8	-4.8	25
J513E	105.5	-5.5	25
J591E	105.6	-5.6	25
KA-26	106.0	-6.0	25
IBS-34	107.7	-7.7	25
KA-28	108.8	-8.8	25
KA-17	108.8	-8.8	25
J459Y	109.0	-9.0	25
IBS-95	109.1	-9.1	25
KA-13	109.2	-9.2	25
J523E	110.5	-10.5	25
KA-24	112.0	-12.0	25
KA-42	114.8	-14.8	25
J483C	115.0	-15.0	25
IBS-107	132.1	-32.1	25

Safety Index Ranking**JADO Compound****Index****Rank**

J683Y	64.5	1
J656Y	62.5	2
J660Y	62.5	2
J661Y	57.1	4
J663Y	55.6	5
J668Y	51.3	6
J554Y	48.8	7
J626Y	48.8	7
J699Y	48.8	7
J677Y	46.5	10
J665Y	44.4	11
J673Y	42.6	12
J694Y	40.5	13
IBS-87	40	14
J607Y	39.5	15
J681Y	37.7	16
J669Y	37.5	17
J680Y	37.5	17
J674Y	37	19
J692Y	32.8	20
J671Y	32.2	21
J555Y	31.3	22
J620Y	29.9	23
J684Y	29.9	23
J697Y	29.9	23
J693Y	25.6	26
J707Y	25	27
J689Y	24.6	28
J688Y	23.8	29
J714Y	22.7	30
J533Y	22.2	31
J687Y	22.2	31
J670Y	22.1	33
J678Y	21.3	34
J666Y	20.8	35
J473C	19.8	36
J644Y	16.5	37
J702Y	16.1	38
J682Y	15.6	39
J573Y	14.7	40
J667Y	14.3	41
J676Y	14.3	41
J530Y	13.5	43
J664Y	13.2	44
J545E	12.5	45
J589E	12.5	45
J600E	11.6	47
J647E	11.6	47
J550E	11.4	49
J629E	11.4	49
J655Y	10.9	51
J551E	10.6	52
J584E	10.4	53

J703Y	10.2	54
J651E	10	55
J775Y	9.9	56
J538E	9.8	57
J525E	9.7	58
J625E	9.6	59
J479Y	9.2	60
IBS-68	8.9	61
J475E	8.8	62
J539C	8.6	63
J653Y	8.2	64
J614Y	8.1	65
J594E	7.9	66
J610Y	7.8	67
J645E	7.7	68
J438Y	7.4	69
J477C	7.4	69
J524Y	7.2	71
J488Y	7.1	72
J558E	7.1	72
J595E	7.1	72
J505Y	7	75
J556Y	7	75
J588Y	6.9	77
J480Y	6.8	78
J511Y	6.8	78
J720Y	6.8	78
J532Y	6.6	81
J521Y	6.4	82
J575Y	6.4	82
J576E	6.3	84
J507Y	6	85
J541E	6	85
J590Y	6	85
J608E	6	85
J686Y	6	85
J509Y	5.9	90
J528E	5.8	91
J601Y	5.8	91
J534E	5.7	93
J549E	5.7	93
J557E	5.7	93
J627E	5.7	93
J420E	5.4	97
J491C	5.4	97
J623E	5.4	97
J649Y	5.4	97
J444C	5.3	101
J520Y	5.3	101
J567E	5.3	101
J546Y	5.2	104
J597E	5.2	104
J616E	5.2	104
J577E	5.1	107
J578Y	5.1	107

J583E	5.1	107
J598E	5	110
J637Y	4.7	111
J500E	4.5	112
J619Y	4.5	112
J547E	4.4	114
J453E	4.3	115
J634E	4	116
J622Y	3.9	117
J514E	3.8	118
J599E	3.8	118
J657E	3.8	118
J609E	3.4	121
IBS-11	3.3	122
J553E	3.2	123
J566E	3.2	123
J448E	2.8	125
J606E	2.6	126
J635E	2.3	127
J585Y	2.1	128
J429E	2	129
J612Y	2	129
J632E	0.9	131
J428E		#N/A
J430E		#N/A
J431Y		#N/A
J437Y		#N/A
J439S		#N/A
J443E		#N/A
J447C		#N/A
J449E		#N/A
J454E		#N/A
J455Y		#N/A
J459Y		#N/A
J460Y		#N/A
J461Y		#N/A
J462E		#N/A
J469Y		#N/A
J476S		#N/A
J478C		#N/A
J482C		#N/A
J483C		#N/A
J484C		#N/A
J485E		#N/A
J486Y		#N/A
J489Y		#N/A
J494E		#N/A
J495Y		#N/A
J497Y		#N/A
J501E		#N/A
J502E		#N/A
J503E		#N/A
J506Y		#N/A
J508Y		#N/A
J510Y		#N/A

J513E	#N/A
J515Y	#N/A
J518Y	#N/A
J519Y	#N/A
J522E	#N/A
J523E	#N/A
J529E	#N/A
J531Y	#N/A
J536Y	#N/A
J537E	#N/A
J540C	#N/A
J542E	#N/A
J543Y	#N/A
J548Y	#N/A
J552E	#N/A
J559S	#N/A
J560S	#N/A
J561Y	#N/A
J562Y	#N/A
J563Y	#N/A
J564Y	#N/A
J565Y	#N/A
J568E	#N/A
J569E	#N/A
J570E	#N/A
J571E	#N/A
J572E	#N/A
J580Y	#N/A
J582C	#N/A
J586E	#N/A
J591E	#N/A
J592C	#N/A
J593C	#N/A
J596C	#N/A
J602E	#N/A
J603E	#N/A
J604E	#N/A
J605Y	#N/A
J611Y	#N/A
J613C	#N/A
J615E	#N/A
J617E	#N/A
J621E	#N/A
J624E	#N/A
J628E	#N/A
J631Y	#N/A
J633E	#N/A
J636Y	#N/A
J639E	#N/A
J640E	#N/A
J641E	#N/A
J643Y	#N/A
J646E	#N/A
J648E	#N/A
J650Y	#N/A

J652E	#N/A
J654Y	#N/A
J658E	#N/A
J659Y	#N/A
J662C	#N/A
J672Y	#N/A
J675Y	#N/A
J679Y	#N/A
J685Y	#N/A
J690C	#N/A
J696Y	#N/A
J698Y	#N/A
J700E	#N/A
J704Y	#N/A
J705Y	#N/A
J706Y	#N/A
J708Y	#N/A
J709Y	#N/A
J710Y	#N/A
J711Y	#N/A
J712Y	#N/A
J713Y	#N/A
J715Y	#N/A
J718Y	#N/A
J719Y	#N/A
IBS-2	#N/A
IBS-15	#N/A
IBS-16	#N/A
IBS-17	#N/A
IBS-20	#N/A
IBS-21	#N/A
IBS-23	#N/A
IBS-24	#N/A
IBS-30	#N/A
IBS-33	#N/A
IBS-34	#N/A
IBS-35	#N/A
IBS-36	#N/A
IBS-41	#N/A
IBS-42	#N/A
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IBS-45	#N/A
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IBS-49	#N/A
IBS-50	#N/A
IBS-56	#N/A
IBS-58	#N/A
IBS-63	#N/A
IBS-64	#N/A
IBS-65	#N/A
IBS-66	#N/A
IBS-79	#N/A
IBS-83	#N/A

IBS-85	#N/A
IBS-95	#N/A
IBS-96	#N/A
IBS-97	#N/A
IBS-98	#N/A
IBS-100	#N/A
IBS-101	#N/A
IBS-102	#N/A
IBS-103	#N/A
IBS-104	#N/A
IBS-105	#N/A
IBS-106	#N/A
IBS-107	#N/A
KA-2	#N/A
KA-3	#N/A
KA-4	#N/A
KA-5	#N/A
KA-6	#N/A
KA-7	#N/A
KA-9	#N/A
KA-10	#N/A
KA-12	#N/A
KA-13	#N/A
KA-14	#N/A
KA-17	#N/A
KA-22	#N/A
KA-23	#N/A
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KA-26	#N/A
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KA-32	#N/A
KA-33	#N/A
KA-34	#N/A
KA-36	#N/A
KA-37	#N/A
KA-38	#N/A
KA-42	#N/A
KA-50	#N/A
KA-52	#N/A
KA-53	#N/A
J405S	
J419E	

Supplementary Table 2: Endocytic Parameters

*bold indicates the parameters in figure 2

EGF	<ul style="list-style-type: none"> 1 Number of vesicles masked 2 Total intensity masked 3 Integral vesicle intensity masked 4 Mode area (volume weighted) 5 Mode area (mean intensity weighted) 6 Mode area 7 Mode mean intensity (volume weighted) 8 Mode mean intensity (mean intensity weighted) 9 Mode mean intensity 10 Mode integral intensity (volume weighted) 11 Mode integral intensity (mean intensity weighted) 12 Mode integral intensity 13 Distance to nucleus distance ratio (volume weighted) 14 Distance to nucleus distance ratio (mean intensity weighted) 15 Distance to nucleus distance ratio 16 Membrane-nucleus distribution ratio (volume weighted) 17 Membrane-nucleus distribution ratio (mean intensity weighted) 18 Membrane-nucleus distribution ratio (volume weighted) 19 Mode vesicle intensity inside cell protrusions 20 Mode vesicle intensity outside cell protrusions
TF	<ul style="list-style-type: none"> 1 Number of vesicles masked 2 Total intensity masked 3 Integral vesicle intensity masked 4 Mode area (volume weighted) 5 Mode area (mean intensity weighted) 6 Mode area 7 Mode mean intensity (volume weighted) 8 Mode mean intensity (mean intensity weighted) 9 Mode mean intensity 10 Mode integral intensity (volume weighted) 11 Mode integral intensity (mean intensity weighted) 12 Mode integral intensity 13 Distance to nucleus distance ratio (volume weighted) 14 Distance to nucleus distance ratio (mean intensity weighted) 15 Distance to nucleus distance ratio 16 Membrane-nucleus distribution ratio (volume weighted) 17 Membrane-nucleus distribution ratio (mean intensity weighted) 18 Membrane-nucleus distribution ratio (volume weighted) 19 Mode vesicle intensity inside cell protrusions 20 Mode vesicle intensity outside cell protrusions
EGF/ TF	<ul style="list-style-type: none"> TF/ EGF co-localization EGF/ TF co-localization
CELL	<ul style="list-style-type: none"> 1 Cell median area 2 Cell median compactness 4 Cell median contact-ratio 5 Cell median dispersion 6 Cell median eccentricity 7 Cell median protrusion area 8 Cell median solidity 9 Median nuclei-cell ratio 10 Nuclei median compactness 11 Nuclei mode area

Supplementary Table 3: Endocytic Profiles (compounds with parameters in bold are endocytic hits)

	EGF number of vesicle masked	EGF mode Area (volume weighted)	EGF mode Area (mean int. weighted)	EGF mode Area	EGF mode Mean Intensity (volume weighted)	EGF mode Mean Intensity (mean int. weighted)
Ag1478_10	2.277	4.573	7.175	2.762	-2.824	-2.556
Dmso 0.1%	-0.194	-0.423	-0.733	-0.509	0.000	0.059
Miltefosine	0.357	-0.299	-0.129	-0.271	2.112	1.286
IBS-100	0.188	-0.138	0.298	-0.037	0.254	0.368
IBS-101	0.698	-0.671	-0.200	-0.481	1.561	1.262
IBS-102	0.391	-0.509	0.142	0.045	1.380	1.319
IBS-103	0.993	-0.133	0.129	0.356	0.612	0.676
IBS-104	0.830	0.110	0.426	0.042	1.902	1.550
IBS-105	0.548	0.436	1.068	0.631	0.088	0.300
IBS-106	0.660	0.439	1.020	0.375	0.762	0.794
IBS-107	0.225	-1.359	-0.440	-0.473	1.318	1.237
IBS-11	-0.585	0.579	0.048	0.000	-0.296	-0.257
IBS-15	-1.239	0.140	-0.017	0.040	-0.780	-0.728
IBS-16	0.260	-0.478	-0.809	-0.450	-0.177	0.046
IBS-17	-1.360	2.574	3.290	2.408	-1.227	-1.015
IBS-2	0.013	-0.616	-0.225	-0.153	0.503	0.720
IBS-20	0.567	-0.373	-0.135	-0.284	-0.102	0.289
IBS-21	-0.166	0.077	-0.077	-0.107	0.070	0.154
IBS-23	0.613	-0.902	-0.509	-0.633	0.396	0.383
IBS-24	0.251	-0.198	-0.905	-0.388	-0.241	-0.131
IBS-30	0.121	0.439	-0.041	0.025	-0.224	-0.058
IBS-33	-0.517	-0.303	1.351	0.399	0.866	0.883
IBS-34	-1.141	-0.220	-0.847	-0.497	-1.090	-0.770
IBS-35	-1.557	-0.198	0.246	0.124	-0.434	-0.256
IBS-36	-0.282	-0.434	-0.555	-0.429	-0.766	-0.771
IBS-41	0.113	-0.227	-0.210	-0.132	-0.343	0.084
IBS-42	-1.329	0.626	0.384	0.352	-0.744	-0.621
IBS-43	-1.043	0.644	-0.065	0.291	-0.767	-0.550
IBS-44	-0.393	0.196	-0.229	-0.536	-1.072	-0.932
IBS-45	-0.254	-0.706	-1.079	-0.608	0.438	0.597
IBS-46	0.321	-0.955	-1.227	-0.942	1.185	1.655
IBS-47	-1.753	0.956	2.230	0.949	-1.324	-1.082
IBS-49	-0.962	0.988	0.344	0.609	-1.226	-1.023
IBS-50	-2.331	1.410	0.890	0.895	-1.385	-1.083
IBS-56	-1.886	1.938	2.859	1.570	-1.471	-1.319
IBS-58	-0.681	-0.352	0.576	0.110	-0.205	0.045
IBS-63	-0.851	-0.120	0.443	0.298	-0.717	-0.655
IBS-64	-0.567	-0.054	0.752	-0.031	0.151	0.550
IBS-65	-0.549	-0.435	-0.767	-0.228	-0.029	0.073
IBS-66	-0.226	0.243	0.380	0.127	0.199	0.222
IBS-68	1.924	-0.488	0.215	-0.389	2.229	1.616
IBS-79	-0.337	-0.346	-0.012	-0.311	1.712	1.619
IBS-83	-0.967	0.505	0.891	0.333	-1.214	-0.810
IBS-85	0.439	-0.476	0.324	-0.078	0.330	0.670
IBS-87	2.565	-1.718	-1.064	-1.086	2.077	1.947
IBS-95	1.338	-1.367	-0.671	-0.961	1.864	1.660

IBS-96	0.662	-0.128	-0.304	-0.559	1.358	1.265
IBS-97	1.010	-1.353	-0.686	-0.872	2.296	1.827
IBS-98	0.648	-0.176	0.716	0.003	0.636	0.785
J405S	0.747	0.346	0.609	0.681	0.736	0.585
J419E	-0.818	2.881	1.868	2.352	-1.270	-1.228
J428E	0.707	-0.234	-0.002	0.216	1.492	2.444
J429E	0.115	0.673	0.601	0.942	-0.834	-0.425
J430E	0.436	0.701	0.930	1.192	0.186	0.573
J431Y	0.169	-0.182	-0.075	0.136	0.584	0.695
J437Y	1.017	-0.567	-0.325	-0.779	1.603	2.084
J438Y	1.181	1.366	1.902	1.023	-0.231	-0.674
J439S	0.467	0.074	0.462	0.330	0.179	0.135
J443E	-0.078	2.263	2.391	2.734	-0.242	-0.195
J444C	1.433	-1.194	-0.706	-0.854	1.294	1.612
J447C	0.027	1.113	1.335	1.532	0.646	0.847
J448E	0.934	-0.743	-0.430	-0.593	0.407	0.393
J449E	0.896	0.362	0.932	1.172	1.194	1.669
J453E	0.854	1.289	1.104	1.068	-0.889	-0.922
J454E	0.668	0.471	0.950	0.944	0.346	1.679
J455Y	1.905	-1.242	-0.724	-1.189	4.199	3.674
J459Y	0.466	-0.101	-0.145	0.281	0.015	0.032
J460Y	-0.204	0.131	-0.254	0.113	-0.787	-0.602
J461Y	-1.146	4.815	4.659	5.393	-1.443	-1.269
J462E	-0.266	-0.155	-0.758	-0.524	-0.646	0.160
J469Y	-0.138	0.708	0.206	0.254	-1.063	-0.928
J473C	-1.246	2.305	1.439	2.221	-1.162	-0.945
J475E	0.679	-0.933	-0.733	-1.089	0.845	0.884
J476S	-0.294	-0.252	-0.098	0.173	-0.429	0.091
J477C	0.022	-0.071	-0.347	-0.342	0.347	0.537
J478C	-0.326	0.072	-0.049	0.254	0.228	0.175
J479Y	-0.522	3.255	3.194	2.986	-1.103	-1.123
J480Y	0.746	-0.437	-0.368	-0.514	0.380	0.515
J482C	-0.357	0.552	0.012	0.809	-0.802	-0.407
J483C	-0.001	0.351	-0.044	0.306	-0.542	-0.390
J484C	0.286	-0.548	-0.816	-0.880	0.016	0.042
J485E	0.748	-1.577	-1.487	-1.790	1.509	2.050
J486Y	-0.010	0.078	-0.108	-0.047	0.241	0.323
J488Y	0.267	-0.560	-0.170	-0.675	0.923	0.530
J489Y	-0.021	-0.220	-0.090	-0.059	-0.142	-0.048
J491C	-1.269	0.387	0.180	0.926	-0.326	-0.398
J494E	0.019	-0.904	-1.399	-1.367	0.304	0.318
J495Y	-0.558	0.611	0.144	0.799	-1.098	-0.895
J497Y	-0.706	0.734	-0.046	0.357	-1.033	-0.894
J500E	-0.223	0.622	-0.216	0.000	-0.504	-0.574
J501E	-0.294	-0.046	-0.214	-0.103	-0.281	-0.239
J502E	-0.624	-0.167	0.195	0.273	0.141	0.230
J503E	-0.543	-0.992	-0.546	-0.574	0.831	1.280
J505Y	0.345	2.125	1.171	0.819	-0.723	-0.863
J506Y	-0.054	0.534	0.538	0.293	0.071	0.006
J507Y	-0.825	2.394	1.244	1.645	-1.174	-1.208
J508Y	-1.280	1.785	0.963	1.874	-1.494	-1.364
J509Y	-0.496	1.917	0.875	1.147	-0.910	-1.018
J510Y	-1.524	2.460	1.302	2.016	-1.238	-1.158

J511Y	-1.156	1.287	1.187	1.250	-0.874	-0.934
J513Y	-1.354	0.535	0.665	0.911	-0.602	-0.390
J514E	-0.593	0.048	-0.104	-0.217	0.776	0.246
J515Y	0.069	0.354	0.827	1.338	-0.688	-0.215
J518Y	0.841	-0.283	0.198	0.028	0.621	0.688
J519Y	1.256	-0.292	0.272	0.234	1.589	1.772
J520Y	0.993	-0.375	0.008	-0.387	1.267	1.022
J521Y	0.343	2.406	0.947	1.200	-1.263	-1.309
J522E	0.718	0.446	-0.261	0.075	-0.707	-0.740
J523E	0.863	-1.142	-1.097	-1.155	1.582	1.985
J524Y	0.513	0.002	-0.360	-0.196	-1.000	-0.943
J525E	0.796	3.702	3.813	2.757	-1.240	-1.458
J528E	-0.736	4.111	4.129	4.919	-1.103	-1.131
J529E	0.291	1.158	1.922	2.443	-0.539	-0.022
J530Y	0.878	-0.340	-0.074	-0.086	0.918	0.810
J531Y	0.213	0.791	0.370	0.764	-0.756	-0.583
J532Y	-0.356	2.008	1.872	1.896	-1.084	-1.027
J533Y	0.926	-0.460	-0.239	-0.484	-0.097	0.051
J534E	1.745	-0.494	-0.328	-0.707	0.618	0.375
J536Y	0.771	-1.334	-0.588	-0.575	2.106	2.387
J537E	-0.618	1.565	0.940	1.378	-0.723	-0.752
J538E	-0.216	0.968	0.519	0.740	-0.345	-0.530
J539C	-0.494	3.893	3.157	3.313	-1.195	-1.299
J540C	-0.751	0.625	0.400	0.351	-0.538	-0.206
J541E	-0.986	4.557	3.132	3.380	-1.355	-1.329
J542E	0.182	0.517	0.203	0.626	-0.131	0.080
J543Y	-0.049	3.438	1.992	2.128	-1.185	-1.222
J545Y	-0.647	2.085	1.701	2.445	-1.137	-1.133
J546Y	-0.193	1.478	0.663	1.508	-1.066	-0.954
J547E	-0.372	-0.392	-0.515	-0.472	-0.336	0.079
J548Y	-0.018	-0.725	-0.613	-0.931	0.907	0.692
J549E	0.884	0.065	0.165	-0.098	0.115	0.219
J550E	0.455	-0.410	-0.632	-0.923	-0.134	-0.069
J551E	0.317	1.110	0.401	0.353	-0.814	-0.926
J552E	0.132	0.229	0.133	0.523	-0.517	-0.481
J553E	-0.550	0.718	0.375	0.635	-0.522	-0.497
J554Y	-0.018	-0.779	-0.851	-0.767	-0.402	-0.256
J555Y	0.698	-0.424	-0.839	-0.810	-0.081	-0.169
J556Y	-0.279	1.349	1.101	1.382	-0.788	-0.459
J557E	-0.179	0.397	-0.050	0.206	-0.049	-0.166
J558E	-0.550	-0.146	-1.081	-0.937	-0.569	-0.565
J559S	-1.083	1.401	0.968	1.578	-1.176	-1.028
J560S	-0.595	3.051	2.843	3.709	-1.233	-1.173
J561Y	-1.214	0.838	-0.435	0.508	-0.727	-0.630
J562Y	-0.466	0.119	-0.024	0.256	-0.135	-0.044
J563Y	-0.310	-0.552	-0.443	-0.515	0.240	0.301
J564Y	-1.217	0.544	0.448	0.839	-0.471	-0.472
J565Y	-0.154	-1.174	-0.880	-0.991	0.936	0.872
J566E	-1.323	3.591	2.969	3.006	-1.473	-1.428
J567E	-0.908	0.796	-0.423	-0.010	-1.180	-1.080
J568E	-0.645	-0.655	-0.796	-0.571	-0.602	-0.494
J569E	-2.352	6.377	6.525	6.243	-1.722	-1.709
J570E	-1.185	2.253	1.915	2.304	-0.649	-0.608

J571E	-1.605	2.519	1.952	2.302	-1.316	-1.170
J572E	-0.794	2.023	1.588	1.664	-0.474	-0.598
J573Y	-0.300	-0.174	-0.754	-0.947	-0.241	-0.348
J575Y	-0.792	0.150	-0.507	-0.226	-0.793	-0.732
J576E	-0.465	2.140	1.540	1.901	-1.166	-1.117
J577E	-0.367	2.569	2.491	2.063	-0.582	-0.768
J578Y	0.275	-0.828	-0.498	-0.956	1.688	1.395
J580Y	0.374	0.543	0.864	1.448	-0.843	-0.555
J582C	0.753	-1.405	-1.141	-1.563	0.373	0.537
J583E	-0.516	2.681	2.535	2.627	-0.869	-0.190
J584E	1.664	-1.129	-0.644	-0.767	2.773	2.711
J585Y	0.516	-0.090	-0.087	-0.149	0.180	0.012
J586E	-0.477	1.546	1.910	2.242	-0.999	-0.881
J588Y	-1.167	2.823	2.780	3.221	-1.548	-1.504
J589E	1.207	0.300	0.368	-0.089	1.098	0.541
J590Y	0.319	0.979	0.594	0.635	-0.877	-0.949
J591E	-0.628	1.229	0.461	1.121	-0.618	-0.384
J592C	-0.517	2.322	1.985	2.499	-0.756	-0.410
J593C	0.154	0.297	-0.028	0.472	0.743	0.977
J594E	1.127	-0.092	-0.109	-0.496	0.040	-0.114
J595E	-0.365	2.744	2.325	2.323	-0.859	-0.982
J596C	0.743	-1.026	-0.631	-0.872	5.502	4.702
J597E	0.100	0.017	-0.884	-0.415	-0.802	-0.671
J598E	1.228	-0.845	-1.170	-1.493	-0.007	-0.130
J599E	0.180	-0.293	-0.258	-0.043	-0.368	-0.154
J600E	-0.935	1.180	0.304	0.665	-1.276	-1.122
J601Y	-0.530	0.742	-0.341	-0.201	-1.251	-1.227
J602E	0.907	-1.915	-1.310	-2.083	6.469	5.569
J603E	-0.323	0.836	0.073	0.499	-0.949	-0.829
J604E	-1.010	0.900	0.257	0.374	-0.295	-0.517
J605Y	-0.007	-1.140	-0.768	-0.868	1.610	1.995
J606E	-0.164	0.474	0.071	0.066	-0.616	-0.692
J607Y	0.363	-0.767	-0.918	-1.024	0.799	0.859
J608E	-0.344	-0.258	-1.116	-0.975	-0.867	-0.720
J609E	-0.322	0.176	-0.140	0.051	-0.287	0.269
J610Y	-1.122	1.690	0.015	0.713	-0.968	-0.950
J611Y	-0.637	-0.091	-0.611	-0.532	-0.143	-0.287
J612Y	0.519	-0.800	-1.290	-1.203	-0.369	-0.035
J613C	-0.435	1.675	1.072	1.285	-0.450	-0.314
J614Y	-0.315	1.046	0.744	1.035	-0.953	-0.811
J615E	-0.647	-0.471	-0.259	-0.459	-0.130	-0.088
J616E	-1.435	1.100	0.287	0.974	-0.976	-0.919
J617E	-0.533	-0.728	-0.774	-0.662	0.588	0.612
J619Y	-1.327	0.358	-0.555	-0.156	-0.976	-0.954
J620Y	-1.597	2.313	1.551	2.148	-1.288	-0.669
J621E	-0.297	-1.493	-1.496	-1.695	0.462	0.847
J622Y	-0.604	0.697	-0.428	-0.471	-0.946	-1.018
J623E	0.316	-1.025	-1.031	-0.927	2.886	2.608
J624E	-0.409	0.466	0.530	0.861	0.437	0.569
J625E	-0.282	0.673	0.620	0.803	-0.885	-0.950
J626Y	-0.029	0.429	-0.316	-0.294	-0.798	-0.864
J627E	-1.038	3.007	2.104	2.879	-1.174	-1.166
J628E	-1.334	1.959	0.570	1.300	-0.978	-1.021

J629E	-0.487	1.039	0.401	0.412	-0.772	-0.738
J631Y	-0.809	1.685	1.113	1.458	-1.264	-1.173
J632E	-0.319	0.958	0.401	1.060	-0.721	-0.630
J633E	-1.146	1.197	0.580	1.277	-0.590	-0.544
J634E	-1.115	1.971	1.501	1.660	-1.060	-1.010
J635E	-0.113	0.266	0.347	0.909	-0.360	-0.070
J636Y	0.592	-0.488	-0.216	0.043	0.744	1.009
J637Y	-0.197	2.255	0.290	0.652	-1.299	-1.331
J639E	-0.085	-0.008	0.218	0.010	0.695	1.012
J640E	1.969	-1.542	-0.782	-1.312	4.633	4.342
J641E	0.835	-0.507	-0.766	-0.569	0.053	0.478
J643Y	0.206	-0.390	-0.051	0.044	0.680	1.522
J644Y	1.008	-0.734	-0.221	-0.469	2.842	3.141
J645E	2.771	-0.378	0.393	-0.297	1.185	0.663
J646E	0.403	-0.319	-0.455	-0.522	1.734	1.926
J647E	1.192	-0.020	0.463	0.322	1.623	1.923
J648E	0.483	0.269	0.720	0.989	-0.130	0.337
J649Y	0.101	0.663	-0.018	0.343	-1.097	-1.115
J650Y	0.807	-0.992	-0.612	-0.652	0.744	1.127
J651E	0.073	0.143	0.053	0.167	-0.120	0.006
J652E	1.201	-1.822	-1.028	-1.614	3.637	3.375
J653Y	0.250	-0.049	-0.177	-0.354	1.409	0.930
J654Y	-0.086	-1.082	-0.686	-0.990	2.314	2.051
J655Y	-0.055	0.820	0.091	0.022	-0.964	-0.984
J656Y	0.364	0.766	0.267	0.417	-0.390	-0.531
J657E	-0.459	0.595	0.196	0.605	-1.114	-0.827
J658E	1.633	-1.348	-1.234	-1.683	3.852	3.068
J659Y	0.149	-0.988	-1.186	-1.263	0.001	0.449
J660Y	0.138	1.534	0.895	0.983	-1.058	-1.110
J661Y	0.267	0.359	0.646	0.646	1.079	0.859
J662C	0.284	-0.989	-0.582	-0.638	1.196	1.777
J663Y	-0.100	0.750	0.204	0.630	0.028	0.046
J664Y	-0.238	-0.543	-0.694	-1.034	0.272	-0.030
J665Y	0.409	-0.266	-0.317	-0.670	1.075	1.018
J666Y	0.250	-0.955	-1.280	-1.328	0.071	0.082
J667Y	0.087	0.657	0.355	0.153	-0.598	-0.755
J668Y	0.772	-0.424	-0.807	-0.969	-0.224	-0.217
J669Y	-1.003	0.352	-0.249	0.364	-1.274	-1.178
J670Y	0.061	0.754	0.231	0.310	-0.509	-0.415
J671Y	0.333	1.092	0.156	0.162	-0.931	-1.028
J672Y	-0.680	1.336	1.429	1.820	-0.711	-0.656
J673Y	0.076	0.228	0.440	0.206	1.084	0.641
J674Y	-0.483	-0.726	-0.946	-0.960	-0.128	-0.151
J675Y	-1.113	-0.540	-0.970	-0.961	-0.103	-0.255
J676Y	0.156	-0.081	-1.091	-1.003	-0.738	-0.719
J677Y	-0.696	0.575	-0.195	0.208	-1.090	-0.982
J678Y	-0.856	-0.286	-0.619	-0.746	-0.509	-0.656
J679Y	0.669	-1.305	-1.005	-1.503	1.226	1.027
J680Y	0.454	-0.697	-1.234	-1.215	-0.356	0.213
J681Y	0.013	-1.242	-1.086	-1.188	0.351	0.052
J682Y	0.243	-0.074	-0.817	-0.706	-0.786	-0.741
J683Y	0.959	-0.870	-0.901	-1.259	0.374	0.108
J684Y	-1.246	1.095	0.692	1.165	-1.359	-1.232

J685Y	-0.663	0.316	0.071	0.467	-1.204	-0.919
J686Y	-1.877	2.923	2.655	3.447	-1.104	-0.854
J687Y	-0.966	0.661	0.079	0.271	-0.976	-0.724
J688Y	0.257	-0.592	-0.921	-1.154	0.291	-0.098
J689Y	-1.262	1.361	1.008	1.530	-0.617	-0.225
J690C	-0.460	-0.843	-1.241	-1.058	0.075	0.047
J692Y	0.726	-0.032	0.051	-0.303	0.482	0.623
J693Y	1.684	-0.255	-0.322	-0.372	0.221	0.265
J694Y	0.230	-0.884	-0.260	-0.653	-0.151	-0.058
J696Y	0.842	-0.598	0.757	0.213	0.728	1.136
J697Y	1.844	-1.454	-0.662	-0.773	1.545	1.653
J698Y	0.931	-0.722	-0.156	-0.360	1.289	1.363
J699Y	1.349	-1.316	-1.067	-1.016	0.841	1.177
J700E	0.582	-0.898	-0.317	-0.474	2.726	2.485
J702Y	1.397	0.291	0.837	0.095	-1.211	-0.852
J703Y	-1.314	0.341	1.082	0.305	-0.596	-0.272
J704Y	1.042	-0.073	0.019	-0.292	2.672	2.245
J705Y	-0.904	0.480	0.951	0.525	-0.181	-0.183
J706Y	0.106	-0.564	0.332	-0.027	0.820	0.750
J707Y	0.946	-0.919	-0.870	-0.768	1.430	1.222
J708Y	-0.741	-0.908	-0.201	-0.298	1.591	1.536
J709Y	0.862	-0.551	-0.409	-0.448	1.080	1.215
J710Y	0.318	-0.060	-0.100	0.257	1.239	1.329
J711Y	-0.443	-0.104	-0.475	-0.331	1.089	1.131
J712Y	0.923	-0.654	-0.445	-0.870	0.362	0.586
J713Y	0.709	-0.520	-0.545	-0.758	2.553	1.937
J714Y	1.700	-0.695	-0.785	-0.500	-0.278	-0.064
J715Y	-0.184	1.340	1.990	0.972	-0.486	-0.281
J718Y	0.608	-1.150	-1.150	-0.970	0.883	0.827
J719Y	0.746	-0.172	-0.678	-0.261	-0.111	0.138
J720Y	1.435	-0.824	-0.507	-0.459	1.104	0.857
J775Y	0.339	-0.613	0.015	-0.234	2.920	1.786
KA-10	0.393	-1.075	-0.680	-0.636	1.318	1.757
KA-12	0.330	-0.186	-0.644	-0.422	1.195	1.438
KA-13	0.228	0.298	0.586	0.005	-0.495	-0.388
KA-14	-0.729	-0.754	-0.903	-0.526	0.070	0.094
KA-17	-0.932	0.165	-0.042	-0.294	-0.529	-0.549
KA-2	-0.117	-0.048	0.065	0.181	0.643	0.720
KA-22	0.032	0.422	0.230	0.388	-0.637	-0.429
KA-23	1.162	-0.545	0.102	0.792	5.331	4.465
KA-24	-0.132	-0.243	-0.938	-0.386	0.327	0.412
KA-25	-0.293	-0.436	-0.435	-0.065	0.906	0.674
KA-26	-0.044	-0.250	0.115	-0.061	0.438	0.572
KA-27	-0.308	-0.324	-0.756	-0.378	2.115	1.989
KA-28	1.129	-0.538	-0.140	-0.468	1.894	2.065
KA-29	-0.456	0.016	0.066	-0.012	-0.208	0.074
KA-3	0.130	0.229	0.391	0.257	-0.189	-0.032
KA-30	-0.957	-0.674	-0.601	-0.453	-0.061	-0.065
KA-31	-1.634	0.532	0.819	0.333	-0.807	-0.649
KA-32	-1.273	0.200	-0.464	-0.122	-0.619	-0.340
KA-33	-0.912	-0.494	-0.868	-0.206	-0.692	-0.336
KA-34	-0.310	0.755	1.336	0.789	-0.529	-0.383
KA-36	-0.555	-0.272	-0.251	-0.682	0.262	0.477

KA-37	-0.729	-0.175	0.184	-0.049	-0.148	0.004
KA-38	-0.591	0.101	0.019	-0.175	-0.392	-0.314
KA-4	0.239	-0.462	-0.797	-0.429	0.686	0.674
KA-42	-1.279	0.655	0.725	0.538	-0.952	-0.620
KA-5	-1.382	0.945	1.355	0.558	-0.511	-0.270
KA-50	-0.004	-0.169	-1.072	-0.058	0.012	0.138
KA-52	-1.619	-0.301	-0.422	0.185	-0.729	-0.566
KA-53	-0.797	-0.306	-0.563	-0.351	0.406	0.298
KA-6	0.011	-0.940	-0.949	-0.664	0.381	0.561
KA-7	-0.857	0.373	0.297	-0.055	-0.599	-0.436
KA-9	-0.528	0.279	0.536	0.931	-0.484	-0.364

EGF mode Mean Intensity	EGF mode Integral intensity (volume weighted)	EGF mode Integral intensity (mean int. weighted)	EGF mode Integral intensity	EGF Dist. to nuc. (volume weighted nuc. size normalized)	EGF Dist. to nuc. (mean int. weighted nuc. size normalized)	EGF Dist. to nuc. (nuc. size normalized)
-1.692	-0.761	-1.318	-1.889	5.419	4.157	3.441
0.258	-0.383	-0.322	-0.148	-0.674	-0.657	-0.408
1.211	2.368	1.323	2.214	-0.518	-0.310	0.058
0.160	0.121	0.250	0.684	-0.019	0.177	1.258
0.658	1.553	2.093	0.771	0.747	0.804	1.213
0.862	2.134	2.626	1.843	-0.295	-0.182	0.928
0.243	0.569	1.426	1.082	2.079	1.790	1.993
0.573	1.167	1.393	1.223	0.328	0.277	1.367
-0.131	0.701	1.171	0.388	0.236	0.234	0.903
0.320	1.186	1.399	1.029	0.430	0.559	1.814
1.062	1.108	1.159	0.988	0.367	-0.166	1.103
-0.617	-0.183	0.098	-0.918	0.899	1.101	0.891
-0.696	-0.706	-0.763	-0.582	-0.096	0.175	-0.223
-0.010	0.468	0.544	-0.810	-0.249	0.187	0.429
-1.216	-0.767	-0.881	-0.300	1.942	1.296	0.988
0.458	0.468	0.654	0.973	-0.635	-0.320	0.171
0.250	0.054	0.099	0.185	1.152	0.918	1.797
-0.090	-0.110	0.075	0.045	1.941	1.818	2.000
0.374	0.866	1.124	0.211	0.770	0.961	1.562
-0.182	-0.273	-0.314	-0.216	-0.267	-0.018	0.057
0.075	-0.160	-0.007	0.175	-0.437	-0.072	0.393
0.742	1.382	2.165	1.427	-0.490	-0.318	-0.489
-0.680	-0.594	-0.486	-1.351	2.685	2.995	3.308
-0.082	-0.535	-0.433	0.078	1.981	2.620	1.272
-0.295	-0.770	-0.674	-0.788	1.857	1.991	3.279
-0.101	0.051	0.087	-0.903	1.876	1.919	2.546
-0.611	-0.632	-0.683	-0.632	1.957	1.994	2.223
-0.748	-0.849	-0.912	-0.652	0.752	1.048	0.618
-0.774	-0.518	-0.522	-1.948	2.077	1.910	2.700
0.273	0.240	0.588	0.315	2.407	2.556	3.846
1.935	1.645	2.280	1.778	2.302	2.106	3.536
-0.745	-1.026	-0.894	-0.590	2.467	1.908	1.122
-1.054	-0.865	-0.919	-1.127	2.773	1.935	0.951
-0.465	-0.924	-0.731	-0.095	-0.063	-0.110	-0.906
-1.124	-0.949	-0.700	-0.818	0.640	0.603	0.393
0.118	-0.226	-0.255	0.269	1.614	1.356	1.408
-0.256	-1.016	-0.907	-0.291	1.030	0.764	0.885
0.298	0.191	0.432	0.338	1.580	1.335	1.626
0.206	0.056	0.342	0.280	1.401	1.612	2.034
0.062	0.034	0.126	0.278	-0.020	-0.056	0.027
1.546	2.117	3.001	1.751	-0.701	-0.319	0.440
1.121	1.777	2.288	1.864	-2.115	-1.541	-0.927
-0.622	-0.670	-0.623	-0.877	-0.064	-0.108	-0.694
-0.164	0.584	0.907	-0.061	-1.294	-1.198	-0.058
1.070	2.111	3.282	0.218	0.482	0.718	2.502
1.146	1.837	2.335	1.014	0.939	0.793	1.764

1.045	1.408	1.589	1.417	-0.274	-0.191	0.210
1.801	1.974	2.620	1.811	-0.121	0.089	0.849
0.076	1.954	1.964	-0.055	-0.668	-0.700	0.119
0.492	1.939	1.477	1.887	-1.018	-0.762	-0.859
-1.623	-0.525	-0.632	-0.146	-0.480	-0.476	-0.715
0.991	3.006	3.102	2.603	0.042	-0.030	-0.445
-0.806	0.383	0.355	0.802	0.118	0.056	-0.296
-0.091	1.226	1.004	1.666	-0.702	-0.663	-0.658
0.558	1.520	1.365	1.594	0.863	0.731	0.713
1.221	2.487	2.116	1.959	-0.328	0.093	0.400
-0.429	0.295	-0.675	-0.559	2.808	2.845	1.737
0.144	1.161	0.559	0.806	-0.124	0.273	-0.068
-0.391	0.416	0.359	1.283	-0.326	-0.344	-0.605
1.572	1.991	1.952	1.946	-0.210	-0.047	-0.107
0.272	2.575	1.616	2.296	-0.166	-0.075	-0.565
0.412	0.813	0.311	0.569	0.080	-0.015	0.039
0.740	2.661	2.681	3.226	-0.520	-0.441	-0.601
-1.015	-0.893	-0.849	-1.000	0.453	0.771	0.375
0.846	1.992	1.816	2.376	0.389	0.399	-0.117
3.375	5.895	4.075	3.495	0.586	0.794	0.971
0.092	0.325	0.505	0.754	0.207	0.502	0.336
-0.693	0.096	-0.253	0.060	0.459	0.520	0.267
-2.116	-0.395	-0.373	0.479	-0.339	-0.526	-0.891
-0.463	0.324	0.235	0.466	0.294	0.293	0.030
-1.114	-0.654	-0.604	-0.402	0.997	0.974	0.828
-1.476	-0.384	-0.448	0.055	0.524	0.675	0.073
0.926	1.677	1.058	1.221	-0.720	-0.405	-0.258
-0.200	1.122	1.037	1.227	0.190	0.180	-0.050
0.108	1.570	0.814	0.835	-0.123	0.084	0.039
0.670	0.807	0.519	1.207	0.367	0.581	0.201
-1.423	-0.495	-0.708	0.112	0.712	0.444	0.127
0.445	0.894	0.589	0.515	0.096	0.263	0.037
-0.917	0.176	0.181	0.569	-0.230	-0.024	-0.489
-0.597	0.278	-0.064	0.127	1.107	1.038	0.561
-0.092	0.689	0.275	0.385	0.293	0.560	0.545
1.481	2.620	1.938	1.459	0.638	0.785	0.800
0.207	0.585	0.478	0.850	1.198	1.402	1.348
0.875	1.426	0.664	0.945	0.678	0.953	0.883
0.170	0.446	0.111	0.462	1.448	1.364	1.252
-0.668	-0.236	-0.254	0.334	0.246	0.395	0.261
0.907	0.101	-0.055	0.387	1.644	1.538	1.183
-1.080	-0.649	-0.545	-0.242	0.388	0.152	-0.468
-1.024	-0.610	-0.563	-0.579	0.568	0.537	0.274
-0.345	-0.573	-0.760	-0.424	2.365	2.147	1.417
-0.372	0.126	0.006	0.182	0.310	0.252	0.463
-0.242	0.165	0.027	0.255	1.214	1.272	0.956
0.825	1.769	1.383	1.111	1.652	1.750	1.418
-0.722	-0.787	-1.188	-1.189	3.316	3.027	1.908
0.340	0.524	0.167	0.846	0.618	0.476	0.113
-1.347	-1.370	-1.499	-1.406	2.336	2.147	1.292
-1.840	-1.415	-1.283	-1.511	0.197	0.286	-0.210
-1.268	-1.136	-1.206	-1.349	2.364	2.852	2.176
-1.690	-1.064	-0.950	-0.899	0.560	0.855	0.463

-0.923	-1.103	-1.032	-1.052	2.613	2.459	1.993
-0.452	-0.127	-0.081	0.419	1.248	1.695	1.233
0.603	1.922	0.087	-0.013	2.690	2.631	2.562
-0.341	0.712	0.776	2.021	-0.463	-0.417	-0.955
0.615	1.732	1.271	1.853	0.281	0.393	0.262
1.414	2.972	2.221	2.759	0.251	0.579	0.451
1.069	2.206	1.162	1.748	0.032	0.423	0.598
-1.683	-1.321	-1.505	-1.956	1.192	1.555	0.754
-0.675	-0.303	-0.482	-0.596	-0.237	0.059	-0.266
1.681	2.476	2.213	2.420	-0.287	0.105	-0.299
-1.206	-1.071	-0.912	-1.580	0.986	1.048	0.753
-2.050	-1.471	-1.569	-2.029	2.216	2.241	1.932
-1.371	0.492	-0.054	1.601	-0.823	-0.767	-1.481
-0.294	1.546	1.240	2.500	-0.514	-0.594	-1.083
0.521	1.664	1.144	1.244	0.543	0.759	0.291
-0.779	0.011	-0.078	0.207	-0.146	0.126	-0.643
-1.453	-0.967	-0.853	-0.907	0.078	0.262	-0.070
0.057	0.836	0.222	0.130	0.014	0.263	0.646
1.258	0.790	0.285	0.416	1.215	1.268	1.073
1.755	3.065	3.052	3.130	0.548	0.631	0.234
-1.447	-0.621	-0.508	-0.526	0.937	1.007	0.535
-0.365	-0.063	-0.398	0.113	0.658	0.901	0.593
-1.732	-0.721	-0.927	-0.822	0.733	1.035	0.433
-0.599	1.368	0.343	0.645	-0.635	-0.618	-0.677
-1.994	-0.200	-0.782	-0.167	-0.532	-0.510	-0.844
-0.402	0.807	0.785	1.027	-0.521	-0.374	-0.320
-1.536	-0.702	-1.120	-0.740	1.217	1.517	0.606
-1.468	-0.530	-0.668	-0.346	0.356	0.322	0.115
-1.187	-0.403	-0.581	-0.457	0.535	0.763	0.499
-0.212	0.471	0.233	0.052	1.156	1.352	1.153
0.666	1.079	0.641	0.423	0.422	0.778	0.613
0.265	0.895	0.483	0.468	0.719	0.719	0.249
-0.040	-0.221	-0.192	-0.516	1.052	0.986	1.195
-0.923	-0.887	-1.063	-1.251	1.905	1.937	1.525
-0.314	0.102	0.061	0.422	1.118	0.775	0.688
-0.705	0.515	0.097	0.231	0.382	0.710	0.290
-0.067	-0.397	-0.331	-0.392	1.378	1.607	1.473
0.131	-0.025	-0.321	-0.337	0.818	0.961	0.970
-0.856	-0.451	-0.383	-0.161	0.548	0.662	0.274
0.137	0.463	0.260	0.292	1.229	1.185	0.654
-0.485	-0.553	-0.580	-0.830	1.337	1.308	1.072
-1.207	-0.808	-0.660	-0.113	0.128	0.260	-0.079
-1.636	-0.316	-0.496	0.535	-0.849	-1.088	-1.334
-1.117	-0.534	-0.272	-0.108	0.712	0.746	0.260
-0.195	0.051	0.145	0.302	0.821	0.655	0.695
0.360	0.177	0.095	0.575	1.511	1.630	0.993
-0.795	-0.042	-0.217	0.289	-0.188	-0.092	-0.213
0.407	0.757	0.642	0.278	1.089	1.011	0.680
-2.041	-1.423	-1.452	-1.429	1.401	1.187	0.685
-1.243	-1.339	-1.134	-1.245	0.378	0.367	0.067
-0.346	-0.457	-0.334	-0.399	0.479	0.580	0.312
-2.651	-1.489	-1.511	-0.864	0.844	0.847	0.291
-1.004	-0.360	-0.370	0.367	-0.176	-0.354	-0.643

-1.674	-1.197	-1.085	-0.814	-0.251	-0.013	-0.509
-0.748	-0.204	-0.392	0.178	0.570	0.783	0.476
0.001	-0.358	-0.545	-0.551	0.675	0.903	0.514
-0.752	-1.037	-0.775	-0.982	1.156	1.196	0.822
-1.379	-0.429	-0.490	0.026	-0.146	0.203	-0.169
-0.844	0.632	-0.153	0.047	0.721	0.884	0.416
0.931	1.897	1.657	1.480	-1.457	-0.990	-0.875
-0.783	0.374	0.577	1.025	-0.207	-0.267	-0.217
0.821	1.522	0.948	0.696	-0.613	-0.049	-0.195
-0.994	0.713	0.597	1.011	-0.710	-0.423	-0.701
2.807	3.641	3.341	2.981	0.591	0.603	0.386
-0.039	0.381	0.313	0.416	0.430	0.684	0.489
-1.144	-0.355	-0.303	0.375	0.494	0.557	0.297
-2.358	-1.351	-1.162	-1.545	0.305	0.689	0.021
0.793	2.035	0.828	1.080	0.242	0.314	0.384
-1.126	-0.639	-0.817	-1.184	0.469	0.681	0.396
-0.845	0.374	0.390	1.006	-0.806	-0.250	-0.658
-1.148	0.646	0.460	0.658	0.143	0.162	-0.071
0.290	1.232	0.942	1.315	0.021	0.151	0.134
0.129	0.386	0.081	0.090	0.748	0.817	0.916
-0.934	-0.010	-0.666	0.176	0.492	0.747	0.258
3.185	5.775	5.310	4.043	0.327	0.403	0.103
-0.545	-0.366	-0.484	-0.369	0.433	0.675	0.135
0.425	-0.203	-0.223	-0.569	0.001	0.294	0.303
-0.039	0.284	0.231	0.650	-0.477	-0.504	-0.945
-1.485	-1.063	-0.991	-1.053	-0.420	-0.080	-0.375
-1.489	-1.235	-1.254	-1.626	-0.081	0.535	0.255
4.355	6.783	4.087	4.178	-0.831	-0.393	-0.370
-1.009	-0.201	-0.291	0.014	-0.807	-0.586	-0.855
-0.973	0.314	-0.537	-0.768	0.469	0.610	0.463
1.497	1.828	1.588	1.714	-0.645	-0.491	-0.314
-0.505	-0.396	-0.557	-0.545	0.638	0.842	0.421
1.037	1.478	0.717	0.990	0.565	0.526	0.224
-0.754	-0.853	-0.727	-0.957	-0.305	-0.016	-0.163
-0.218	0.430	0.250	0.295	0.034	0.306	-0.044
-1.425	-1.117	-1.106	-1.202	1.159	1.156	0.557
-0.473	0.060	-0.168	-0.178	0.134	0.294	0.070
0.025	0.060	0.018	0.002	0.469	0.297	0.029
-0.469	0.039	-0.257	0.227	-0.335	0.027	-0.170
-1.028	-0.319	-0.577	-0.385	0.290	0.383	0.117
0.154	0.116	0.121	0.546	-0.415	-0.426	-0.614
-0.973	-1.168	-1.018	-0.779	1.221	1.441	0.785
0.718	0.369	0.547	0.766	1.012	1.028	1.035
-1.146	-1.360	-1.043	-1.126	0.964	0.935	0.385
-1.564	-0.574	-0.437	-0.101	-0.257	-0.146	-0.491
1.011	0.524	0.988	0.444	1.657	1.569	1.637
-1.046	-1.382	-1.321	-1.685	1.658	1.656	1.184
1.439	2.452	2.111	1.967	0.067	0.145	0.220
-0.502	0.332	0.432	0.118	0.123	0.160	0.073
-0.978	-1.108	-1.019	-1.131	1.775	1.474	0.835
-0.814	-0.859	-0.935	-1.249	1.513	1.398	1.109
-1.493	-0.966	-1.032	-0.571	0.489	0.353	-0.150
-1.312	-1.063	-0.926	-0.912	-0.268	0.227	-0.294

-0.852	-0.761	-0.881	-1.185	0.626	0.765	0.602
-1.560	-1.179	-1.045	-0.996	0.581	0.637	0.282
-0.847	-0.438	-0.353	0.082	-0.815	-0.578	-1.035
-0.654	-0.355	-0.312	0.361	0.352	0.184	-0.210
-1.212	-0.737	-0.801	-0.714	0.764	0.807	0.279
-0.273	0.787	0.559	1.176	0.046	0.164	-0.044
0.883	2.134	1.346	1.862	-0.704	-0.241	-0.587
-1.800	-1.501	-1.510	-1.970	0.924	1.412	0.518
0.449	1.803	1.463	1.456	-0.226	-0.103	-0.124
4.020	4.281	4.390	3.927	0.386	0.479	0.738
0.507	0.910	1.001	1.361	-0.292	-0.166	-0.508
0.790	2.047	1.729	1.706	0.322	0.324	0.613
1.704	4.103	3.824	3.252	0.209	0.221	0.491
1.497	1.753	1.133	1.061	1.879	1.608	1.875
0.647	1.981	1.872	1.026	-0.102	0.123	0.104
1.184	3.069	2.451	2.097	0.011	0.147	0.195
0.046	1.053	0.990	1.695	-0.358	-0.349	-0.635
-1.333	-1.078	-0.936	-1.320	0.493	0.581	0.367
0.752	1.609	1.658	1.494	0.562	0.696	0.379
-0.207	0.687	0.560	0.507	0.838	1.046	0.827
3.281	4.262	3.967	3.147	0.541	0.802	1.182
0.167	2.231	1.062	-0.018	1.110	1.256	1.024
1.563	2.290	1.485	1.516	0.960	1.343	1.403
-1.088	-1.209	-1.188	-1.530	1.106	1.307	0.975
-0.437	0.644	-0.108	-0.223	0.618	0.902	0.491
-1.123	-0.601	-0.341	-0.263	0.174	0.377	0.190
3.623	4.756	2.970	3.229	-0.484	-0.171	0.370
0.301	0.387	0.453	0.585	0.061	0.543	0.188
-1.360	-1.081	-1.101	-1.198	-0.051	0.206	-0.109
-0.035	1.304	1.233	0.691	0.510	0.463	0.481
1.547	2.260	2.285	2.114	1.489	1.556	1.237
-0.446	0.377	0.458	0.467	-0.214	0.361	0.083
0.269	0.008	-0.468	-0.715	0.641	0.819	0.729
0.774	1.122	0.873	1.098	0.241	0.696	0.258
0.242	0.091	-0.149	-0.540	1.030	1.419	1.014
-0.774	-0.711	-0.850	-0.821	0.295	0.365	0.223
-0.085	-0.078	-0.300	-0.475	0.883	1.068	0.734
-1.562	-1.292	-1.081	-1.404	1.237	1.453	0.978
-0.489	-0.276	-0.409	-0.222	0.897	0.929	0.598
-1.042	-0.840	-1.050	-1.385	0.630	0.752	0.492
-0.997	0.280	0.203	0.462	-0.068	0.225	-0.045
0.996	1.598	0.719	1.185	1.234	1.209	0.904
0.123	0.111	-0.020	-0.075	0.973	1.283	0.744
-0.024	-0.695	-0.456	-0.802	1.608	1.838	1.238
-0.549	-1.163	-1.155	-1.630	3.032	3.221	2.504
-1.239	-1.181	-1.141	-1.561	1.638	2.100	1.618
-0.628	-0.989	-0.899	-1.460	2.186	2.010	1.922
1.085	1.490	1.015	0.896	1.117	0.958	0.890
0.117	0.084	-0.036	-0.129	1.695	1.743	1.261
0.594	0.232	-0.207	-0.408	1.697	1.709	2.154
-0.525	-0.769	-0.910	-1.278	1.539	1.591	1.174
0.403	0.904	0.165	-0.166	0.715	0.556	0.504
-1.725	-1.669	-1.310	-1.616	0.726	0.908	0.260

-1.135	-0.913	-0.656	-0.539	0.832	0.909	0.514
-0.608	-0.713	-0.639	1.588	-0.594	-0.505	-1.084
-1.216	-0.978	-0.857	-1.437	-0.588	-0.026	-0.469
-0.023	0.087	-0.290	-0.982	1.100	1.542	1.297
-0.671	0.028	0.046	0.224	1.413	1.589	0.947
0.179	-0.087	-0.022	-0.117	0.663	0.899	0.568
0.386	1.657	1.630	0.188	-1.534	-1.011	-0.501
0.419	-0.147	0.047	0.070	-0.268	-0.318	0.766
-0.370	1.328	1.362	-1.657	2.196	1.967	2.334
1.042	0.836	1.273	1.620	0.457	0.669	0.665
0.733	1.459	2.001	0.001	-0.309	0.032	1.423
0.388	1.692	2.357	0.527	-0.352	-0.491	0.578
1.020	0.525	0.973	0.140	1.204	1.114	2.589
1.769	2.495	3.466	2.125	-0.136	-0.046	1.557
-0.804	-0.381	-0.303	-1.966	0.900	0.943	1.998
-0.622	-0.220	-0.104	-0.556	-0.419	-0.613	-0.512
1.959	3.655	3.747	2.693	-0.047	0.132	0.765
-0.491	-0.153	-0.173	0.159	0.177	0.202	0.986
0.450	1.753	1.437	0.465	0.872	0.508	1.590
0.710	3.357	4.550	0.440	4.994	4.898	7.602
0.956	1.623	2.206	1.783	-0.205	-0.139	1.750
0.755	0.805	0.990	1.000	0.775	0.901	2.013
0.879	0.913	1.448	1.892	-0.422	-0.344	0.212
0.749	0.941	1.441	1.381	-0.101	0.079	0.073
0.649	0.807	0.586	0.387	-0.409	-0.208	0.498
1.907	2.406	2.513	1.979	-0.226	-0.120	0.006
0.266	-0.164	0.013	-0.303	0.705	0.679	1.113
-0.541	-0.292	-0.151	0.167	1.119	1.017	0.823
0.855	1.157	1.395	0.571	-0.647	-0.345	0.812
-0.006	-0.145	0.126	-0.064	3.634	3.168	3.287
0.912	0.794	0.908	0.657	0.433	0.440	1.490
1.268	3.072	1.732	2.293	-0.935	-0.579	0.058
1.312	1.412	1.942	1.869	-0.136	-0.019	0.912
1.222	1.292	1.546	1.616	-0.934	-0.395	-0.195
-0.337	-0.292	-0.259	-0.351	-0.276	-0.178	-0.016
0.081	-0.199	-0.265	0.133	1.519	1.553	1.188
-0.527	-0.344	-0.244	-0.986	-1.405	-1.209	-0.751
0.161	0.652	1.300	0.834	0.128	0.304	0.681
-0.422	-0.458	-0.391	-0.432	0.770	0.641	0.606
1.149	5.138	6.477	3.806	2.459	2.043	1.796
0.091	0.065	0.423	0.459	0.222	0.193	0.142
0.565	1.051	1.134	0.926	-0.002	-0.004	1.080
0.300	0.640	0.932	0.425	1.613	1.514	1.759
1.551	2.826	4.051	2.369	-1.476	-1.165	-1.354
1.312	2.888	3.583	1.709	-1.264	-0.913	-0.358
0.156	0.326	0.158	0.040	-0.895	-0.558	-0.203
-0.183	-0.156	-0.197	0.098	0.312	0.577	0.754
0.422	-0.569	-0.510	-0.032	2.635	2.817	3.344
-0.289	-0.621	-0.707	-0.364	0.973	0.735	0.422
0.039	-0.523	-0.417	-0.491	5.973	5.250	4.353
-0.483	-0.374	-0.205	-0.882	0.793	0.725	1.350
-0.766	-0.278	-0.084	-0.605	1.380	1.014	1.455
0.652	0.641	0.635	0.185	1.236	1.190	2.209

-0.112	-0.126	-0.056	0.130	0.281	0.340	1.305
0.002	-0.392	-0.343	0.127	-0.448	0.031	0.735
0.200	0.313	0.414	0.515	-0.320	-0.101	0.515
-0.484	-0.709	-0.925	-0.404	1.818	1.811	1.854
-0.421	-0.086	0.254	-0.091	-0.644	-0.431	-0.518
0.120	-0.278	0.111	0.029	1.193	1.017	1.299
-0.350	-0.734	-0.772	-0.426	4.046	2.530	1.830
0.465	0.140	0.466	0.248	0.918	0.957	1.581
0.653	0.208	0.186	-0.114	-0.850	-0.739	-0.450
-0.754	-0.452	-0.235	-0.671	-0.044	0.039	0.369
-0.655	-0.410	-0.280	-0.384	0.072	0.098	1.428

TF Number of Vesicles (masked)	TF mode Area (volume weighted)	TF mode Area (mean int. weighted)	TF mode Area	TF mode Mean intensity (volume weighted)	TF mode Mean intensity (mean int. weighted)	TF mode Mean intensity
0.708	1.157	1.098	0.812	-0.108	-0.402	1.917
0.488	-1.365	-0.936	-1.132	-0.004	0.000	0.000
0.204	-1.259	-1.215	-1.469	0.662	0.736	0.501
0.191	-0.164	0.319	0.371	0.132	0.201	0.108
0.894	1.523	0.874	0.930	1.675	1.827	1.132
-0.479	-0.137	1.563	0.447	1.922	1.821	0.898
1.363	-1.526	-0.389	-0.841	1.381	1.160	1.505
-0.086	-1.612	-0.601	-0.325	2.889	3.306	0.835
-0.410	-1.486	-0.365	-0.628	4.073	4.083	0.201
-0.338	0.410	0.873	1.031	2.931	3.082	0.792
-0.125	-1.352	0.689	-0.012	1.618	1.776	1.903
-0.993	-2.068	-1.899	-0.733	0.586	0.964	-0.022
-1.197	-0.512	0.769	0.849	-0.041	0.254	-0.728
-1.036	-1.634	-0.244	-0.366	1.982	2.180	0.300
-1.679	-0.782	-1.205	0.427	-0.527	-0.417	-1.563
-0.115	-2.328	-0.879	-0.960	0.916	0.923	0.180
0.354	-2.808	-1.188	-1.302	1.383	1.714	0.794
0.029	-1.253	-2.035	-1.457	1.507	1.839	-0.227
-1.004	-0.417	0.839	0.170	4.485	5.314	0.896
0.687	-2.540	-2.254	-1.551	0.308	0.661	-0.016
0.717	-0.839	-0.706	-0.709	-0.140	-0.189	-0.028
-1.009	1.688	3.476	2.492	1.089	1.313	0.972
-1.580	0.298	0.919	1.458	-0.537	-0.403	-1.256
-1.514	4.451	4.458	3.960	-0.111	-0.295	-0.215
-0.778	0.804	1.106	1.744	0.005	0.370	-1.151
-0.990	-1.249	1.602	1.357	-0.868	-0.886	-0.612
-1.745	-0.534	-0.588	0.258	0.043	0.488	-0.978
-0.343	-0.534	-1.295	-0.712	-0.253	-0.228	-0.671
-4.425	1.264	-0.380	1.502	1.570	2.124	-1.963
-0.230	-0.304	-0.313	0.448	0.453	0.586	0.015
-0.678	0.863	0.161	0.397	0.725	0.547	0.661
-2.132	0.870	2.585	1.405	0.060	0.006	-1.279
-0.347	-0.348	-1.701	-0.855	-0.343	-0.583	-1.235
-1.637	0.580	0.979	-0.132	-1.074	-0.997	-1.040
-1.281	0.944	-0.111	0.175	-1.421	-1.403	-1.291
-0.655	1.064	2.288	0.519	-0.323	-0.713	0.405
-0.284	-1.207	-2.983	-1.424	0.556	1.016	-0.308
-0.632	1.898	2.477	2.717	-0.499	-0.352	-0.062
-0.488	0.717	1.560	2.010	-0.005	-0.087	-0.225
0.211	-1.535	-0.219	-0.921	0.741	0.804	-0.138
0.266	0.235	0.803	0.909	6.225	5.924	0.778
-1.803	0.821	1.442	2.040	1.617	1.802	1.424
-2.753	-1.716	0.514	0.978	1.862	2.214	0.059
0.140	-1.913	0.272	-0.818	1.800	2.096	-0.023
1.144	-3.159	-1.310	-0.885	3.265	3.544	0.983
1.019	-1.268	0.245	-0.330	1.281	1.506	1.150

0.113	1.064	-1.007	-0.450	1.228	1.299	1.195
0.618	-0.624	1.250	0.747	1.246	1.269	1.697
-0.389	1.873	1.697	1.280	1.830	1.794	0.744
1.317	0.153	0.801	0.322	1.237	1.448	1.362
-0.632	-0.478	-0.599	-0.185	-1.019	-1.246	-1.482
1.389	-0.411	-0.364	-1.145	0.926	0.913	1.054
0.164	-1.037	-0.908	-0.766	-0.883	-0.918	-1.070
0.824	-0.453	-0.532	-0.537	0.273	0.155	0.096
0.626	-0.500	-0.502	-1.296	0.594	0.582	0.792
0.948	0.234	0.212	-0.118	1.291	1.315	1.140
-1.597	7.205	6.441	6.067	0.158	-0.415	-1.385
0.875	0.222	0.728	-0.146	1.670	1.746	1.570
-0.184	-0.298	-0.180	0.433	-0.853	-0.800	-0.969
1.864	-1.326	-0.597	-1.473	1.573	1.912	2.105
0.319	-0.028	0.409	0.097	0.403	0.443	0.155
0.942	-1.406	-1.554	-2.119	0.693	0.645	0.722
1.299	-0.205	-0.176	-0.580	1.034	0.978	1.030
-0.216	-1.203	-1.240	-0.306	-1.258	-1.373	-1.729
0.175	-0.013	0.513	0.392	0.433	0.519	0.288
1.237	0.489	0.507	-0.147	1.835	2.062	2.245
0.920	-0.580	-0.868	-1.326	0.312	0.375	0.466
0.082	-0.659	-1.054	-0.809	-0.676	-0.730	-0.909
-1.714	-2.679	-2.687	-0.793	-2.581	-2.705	-3.035
0.122	-0.645	-1.154	-1.348	-0.574	-0.614	-0.812
-0.529	-0.605	-1.115	-0.097	-1.408	-1.572	-1.693
-1.438	-1.532	-1.733	-0.513	-1.900	-1.997	-2.274
0.425	-2.059	-1.901	-2.301	0.753	0.857	0.701
-0.012	0.123	-0.189	-0.436	-0.121	-0.236	-0.263
0.183	-0.948	-1.442	-1.378	-0.450	-0.499	-0.512
-0.081	0.514	0.393	0.289	0.189	0.226	0.307
-1.467	2.072	1.527	2.252	-1.363	-1.528	-1.826
0.371	0.288	-0.039	-0.184	0.171	0.124	0.094
0.079	-1.153	-1.121	-0.747	-1.089	-1.132	-1.273
0.153	-0.950	-1.787	-1.217	-0.879	-0.961	-0.948
0.671	0.392	0.116	-0.036	0.335	0.351	0.451
1.009	-0.263	-0.848	-1.645	0.877	0.924	1.344
-0.133	0.128	0.050	0.166	-0.258	-0.314	-0.355
-0.733	2.153	1.617	0.387	0.594	-0.092	-0.470
0.201	1.381	0.851	1.210	-0.474	-0.561	-0.411
-1.096	1.257	0.528	1.822	-1.192	-1.290	-1.341
-0.026	-0.353	-1.542	-1.672	0.499	0.591	0.609
0.189	-0.348	-1.020	-1.023	-0.960	-1.004	-0.989
-0.332	0.027	-1.196	-0.679	-0.635	-0.897	-0.948
-0.803	0.389	-0.995	0.250	-1.326	-1.363	-1.451
0.283	0.315	-0.134	-0.169	0.177	0.132	0.028
-0.886	3.159	2.896	4.197	-0.927	-0.944	-1.047
-0.856	1.740	1.211	1.992	-0.101	-0.007	-0.122
-1.782	2.846	1.278	2.792	-2.053	-2.248	-2.640
-0.069	2.098	1.389	1.340	0.180	0.119	0.353
-1.977	1.773	-0.777	1.123	-2.401	-2.655	-3.001
-1.095	-0.825	-1.783	-0.062	-2.363	-2.489	-2.693
-2.810	1.180	-0.490	0.734	-2.524	-2.694	-3.144
-1.571	-0.484	-0.709	1.191	-1.956	-2.060	-2.278

-2.285	4.850	4.695	7.574	-1.764	-1.975	-2.283
-1.502	1.447	1.216	3.108	-1.410	-1.472	-1.695
-2.222	1.878	1.071	3.513	-1.753	-1.819	-2.093
0.669	0.111	0.068	-0.086	-0.158	-0.327	-0.488
1.041	0.172	-0.102	-0.801	1.329	1.375	1.590
1.140	0.580	0.753	0.592	1.403	1.337	1.327
0.841	-0.291	-0.555	-0.469	0.787	0.503	0.416
-0.876	-1.179	-1.647	-0.166	-2.141	-2.159	-2.430
0.645	-1.057	-1.138	-0.735	-0.022	0.295	0.056
1.393	-1.333	-1.515	-2.177	1.280	1.226	1.514
0.426	-1.013	-1.075	-0.513	-0.319	-0.255	-0.410
-1.315	5.146	2.793	1.661	0.688	-1.231	-2.039
-0.768	0.215	-0.210	0.900	-1.330	-1.461	-1.643
0.235	-0.693	-0.496	-0.019	-0.280	-0.409	-0.468
0.518	-1.331	-1.360	-1.007	0.024	0.160	-0.146
0.418	-0.606	-0.711	-0.574	-0.283	-0.353	-0.516
-1.471	-1.600	-2.184	-0.585	-1.820	-1.942	-2.319
0.136	-0.211	-0.130	-0.162	0.236	0.272	0.048
-0.215	-1.217	-1.418	-0.560	-0.741	-0.710	-0.913
1.214	-0.697	-0.345	-1.029	1.106	1.051	1.147
-0.375	-1.181	-0.975	-0.581	-0.757	-0.712	-0.967
-1.083	1.261	0.591	0.804	-0.437	-0.685	-1.037
-1.367	-1.173	-1.828	-0.110	-1.885	-1.947	-2.169
-0.187	-1.177	-1.419	-1.059	-0.966	-1.019	-1.129
-1.467	-1.450	-1.744	0.161	-2.305	-2.377	-2.701
-0.057	-0.462	-1.086	-0.738	-0.891	-1.028	-1.226
-2.773	-1.472	-3.176	-1.670	-2.143	-2.557	-3.118
-0.893	-1.346	-1.728	-0.341	-1.868	-1.934	-2.157
-0.597	-1.241	-1.832	-0.824	-1.801	-1.915	-2.097
-0.508	-1.471	-1.779	-1.261	-1.265	-1.332	-1.496
-0.605	0.555	1.027	0.634	0.720	0.606	0.507
0.690	-1.095	-1.321	-1.838	0.383	0.300	0.259
-0.349	-2.462	-3.442	-3.113	-1.124	-1.249	-1.459
-0.765	-0.676	-1.515	-0.147	-1.281	-1.220	-1.420
0.058	-1.094	-1.508	-1.584	-0.688	-0.754	-0.766
-0.622	-0.266	-0.726	-0.573	-0.744	-0.853	-0.958
-0.596	-0.640	-1.322	-0.474	-1.032	-1.094	-1.258
-0.264	-0.195	-1.192	-0.347	-1.013	-0.964	-1.027
-0.296	-0.627	-1.116	-0.405	-1.257	-1.359	-1.409
-1.183	1.105	0.695	2.183	-0.826	-0.930	-1.157
-1.434	-0.210	-0.897	0.301	-1.495	-1.528	-1.600
-1.105	0.207	-0.484	1.158	-2.050	-2.219	-2.473
-0.212	-1.341	-1.679	-0.754	-1.912	-2.073	-2.196
-1.768	-1.383	-1.909	-0.417	-2.163	-2.232	-2.497
-0.167	-0.200	-0.619	0.398	-1.315	-1.357	-1.378
-0.501	1.779	0.976	1.561	-0.791	-0.899	-1.114
-0.673	0.900	0.436	1.979	-1.119	-1.174	-1.147
-0.460	-0.344	-0.003	0.107	0.767	0.473	0.442
-1.520	-0.183	-1.186	1.008	-2.068	-2.138	-2.408
-1.258	-1.161	-1.856	-0.340	-2.044	-2.085	-2.199
-0.131	1.486	0.848	1.387	-1.053	-1.205	-1.264
-4.968	-4.763	-5.572	-2.100	-3.570	-3.746	-4.461
-0.718	-0.204	-0.883	0.358	-1.647	-1.728	-1.812

-2.078	-1.395	-1.967	0.118	-2.537	-2.603	-2.946
-0.671	-0.138	-0.369	0.899	-1.590	-1.577	-1.707
-1.136	-0.145	-0.811	0.212	-0.944	-0.898	-0.914
-1.379	0.460	-0.105	1.621	-1.497	-1.539	-1.654
-0.859	-1.619	-1.821	-0.246	-1.399	-1.364	-1.594
-0.891	0.055	-0.170	0.672	-1.264	-1.343	-1.521
-0.239	0.035	0.358	0.147	0.981	0.897	0.739
0.729	-0.513	-0.201	-0.306	-0.141	-0.311	-0.413
0.873	-0.372	-0.735	-1.107	0.842	0.844	0.988
-1.022	-1.594	-1.604	0.326	-1.817	-1.834	-2.067
1.575	-0.911	-0.921	-1.527	2.435	2.644	2.590
-0.450	-0.303	-0.634	0.437	-0.791	-0.923	-1.264
-0.072	-0.861	-0.626	0.250	-1.080	-1.204	-1.375
-2.114	-1.382	-1.834	0.633	-2.578	-2.726	-3.084
0.876	-0.749	-1.119	-1.653	0.800	0.809	0.875
-0.686	-0.840	-1.373	-0.226	-1.327	-1.473	-1.761
-0.570	-1.159	-0.556	0.016	-1.235	-1.333	-1.553
-0.608	-1.456	-1.292	-0.399	-1.410	-1.529	-1.746
0.025	-0.886	-0.872	-0.484	-0.781	-0.788	-0.870
0.188	-1.753	-2.054	-1.566	-0.788	-0.760	-0.913
-1.123	-0.084	-0.164	1.324	-1.507	-1.554	-1.649
0.965	-0.103	0.112	-0.455	1.067	1.318	1.403
0.251	-1.391	-1.534	-1.472	0.000	0.099	0.098
-0.152	-1.380	-1.831	-1.199	-0.232	-0.363	-0.381
0.352	0.056	-0.571	-1.333	0.821	0.968	0.979
-1.436	-0.791	-1.094	0.188	-2.067	-2.161	-2.426
-1.186	-1.718	-1.763	-0.883	-1.666	-1.683	-1.913
1.385	0.115	-0.742	-1.728	3.483	3.582	3.881
0.218	-1.160	-1.793	-1.490	-0.986	-1.027	-1.128
-1.603	-0.871	-1.305	-0.144	-1.339	-1.382	-1.540
0.438	-0.819	-1.274	-1.117	-0.177	-0.151	0.012
-0.766	0.029	0.012	1.121	-0.766	-0.736	-0.877
0.552	0.277	-0.550	-0.786	0.762	0.834	0.871
-0.466	-1.047	-1.721	-1.277	-0.688	-0.630	-0.808
0.073	-0.981	-1.318	-1.033	-0.371	-0.292	-0.382
-1.436	-0.582	-1.241	0.153	-2.047	-2.133	-2.348
-0.118	-1.388	-1.807	-1.263	-1.004	-1.023	-1.113
0.539	-1.027	-1.543	-1.913	0.023	0.005	0.128
-0.432	0.136	-0.124	0.829	-1.390	-1.553	-1.642
-1.365	0.612	0.311	2.069	-1.762	-1.891	-2.187
-0.419	1.321	0.772	1.473	-0.196	-0.216	-0.460
-2.009	1.583	1.399	4.264	-1.918	-1.979	-2.236
-0.414	1.168	0.494	1.122	-0.907	-0.910	-0.805
-1.268	0.264	-0.320	1.034	-1.682	-1.839	-1.861
-1.735	-0.573	-1.047	0.541	-1.941	-2.056	-2.315
-0.517	-0.949	-1.253	-1.075	-0.920	-0.955	-1.020
-2.107	4.090	2.530	3.120	-1.104	-1.750	-2.281
0.511	0.469	-0.086	-0.062	0.738	0.961	0.948
-0.563	0.583	0.206	1.787	-1.252	-1.343	-1.545
-0.718	2.101	1.650	3.287	-0.820	-1.125	-1.369
-0.093	-1.221	-1.695	-1.595	-0.714	-0.767	-0.733
-1.623	2.246	0.769	4.104	-2.053	-2.140	-2.374
-1.855	-1.834	-1.859	-0.590	-1.851	-1.906	-2.045

-1.575	-0.345	-1.295	0.884	-2.117	-2.140	-2.403
-0.854	-0.420	-1.488	-0.629	-1.916	-2.033	-2.319
0.200	-0.991	-1.380	-0.995	-0.989	-1.069	-1.064
-1.008	-0.055	-0.976	-0.042	-1.340	-1.538	-1.723
-1.565	0.353	0.068	2.194	-1.853	-1.906	-2.120
0.493	-0.742	-0.653	-0.825	0.316	0.222	0.230
0.863	0.201	0.737	0.063	1.302	1.311	1.172
-1.292	-0.640	-1.233	0.984	-2.100	-2.168	-2.368
0.506	-1.120	-1.146	-1.295	0.145	0.230	0.350
1.706	-0.617	-0.289	-1.352	1.796	1.835	2.126
1.248	-1.271	-1.366	-1.551	1.116	1.289	1.440
0.424	-0.055	-0.066	-0.407	0.625	0.673	0.709
0.989	-0.557	0.062	-0.323	0.976	1.194	1.092
1.288	-0.421	-0.650	-1.089	1.538	1.871	1.922
-0.165	-0.422	-0.488	-0.281	0.467	0.457	0.360
0.805	-0.518	-0.312	-0.556	1.700	2.206	1.806
0.926	-0.650	-0.729	-0.848	0.366	0.265	0.234
-0.191	-1.544	-2.005	-1.721	-0.956	-0.970	-1.097
1.008	-0.325	0.044	-0.565	1.173	1.262	1.226
-0.313	-1.604	-1.566	-1.181	-0.582	-0.609	-0.965
1.106	-0.430	0.300	-0.701	3.337	3.692	3.667
-1.029	0.039	0.409	1.027	-0.687	-0.708	-0.967
-0.460	0.198	0.403	-0.232	1.149	1.146	1.251
-0.463	-1.273	-1.703	-0.516	-1.259	-1.308	-1.342
-0.051	-1.549	-1.981	-1.603	-0.662	-0.682	-0.713
0.006	-1.698	-2.220	-1.433	-1.373	-1.501	-1.591
1.331	-1.646	-1.863	-2.671	2.879	3.086	3.534
0.188	-0.371	-1.253	-1.236	-0.225	-0.302	-0.279
-0.028	-1.720	-2.133	-1.496	-1.494	-1.566	-1.727
0.143	0.133	-0.262	0.318	-0.242	-0.250	-0.191
0.688	0.385	0.375	0.022	1.394	1.704	1.778
-0.625	-1.123	-1.295	-0.662	-1.214	-1.250	-1.314
-0.875	0.067	-0.133	0.667	-0.758	-0.765	-0.743
-0.017	0.463	-0.132	-0.075	0.977	0.886	0.780
0.432	-1.320	-1.832	-1.797	-0.359	-0.396	-0.389
-1.145	2.154	0.886	-0.033	-0.656	-1.392	-1.821
0.302	-1.031	-1.324	-0.947	-0.283	-0.286	-0.440
-0.955	-1.239	-1.822	-0.935	-1.853	-1.986	-2.126
-0.558	0.663	-0.014	1.393	-0.989	-1.071	-1.143
-0.488	-0.541	-0.963	0.058	-1.553	-1.497	-1.719
-0.709	0.301	-0.572	0.329	-1.757	-2.062	-2.233
-0.252	1.209	0.610	1.211	0.084	0.254	0.156
-1.221	1.092	0.838	2.668	-0.986	-0.989	-1.098
-1.692	2.180	1.639	3.413	-1.272	-1.223	-1.407
-1.032	1.071	-0.107	1.580	-1.325	-1.311	-1.374
-1.212	-0.223	-1.083	0.951	-2.104	-2.218	-2.432
-1.954	-0.165	-1.371	0.732	-2.382	-2.420	-2.668
0.657	-0.317	-0.272	-1.031	1.204	1.279	1.345
-0.023	0.038	-0.420	1.153	-1.015	-1.094	-1.026
-0.921	0.196	-0.065	0.815	-0.812	-0.812	-0.777
-0.325	-0.620	-0.968	-0.758	-0.909	-1.024	-1.111
0.465	-0.759	-1.408	-1.134	0.434	0.393	0.546
-1.356	1.030	0.188	2.716	-2.079	-2.119	-2.337

-0.210	-0.966	-1.590	-1.382	-1.170	-1.323	-1.459
-1.355	-1.561	-1.962	-0.217	-2.478	-2.575	-2.854
-0.798	-1.463	-1.819	-0.372	-1.681	-1.717	-1.862
-0.345	-0.702	-1.137	-0.919	-0.559	-0.594	-0.514
-1.560	0.842	-0.116	1.344	-1.637	-1.756	-1.992
-0.925	0.459	0.329	1.190	-0.942	-0.975	-0.960
-1.293	0.184	1.822	2.130	2.054	2.661	0.122
0.549	-0.379	-2.545	-1.324	1.719	2.050	0.111
-2.234	-2.261	-3.521	-0.615	1.833	3.134	-0.796
-0.279	-0.403	-0.282	-0.238	0.687	1.048	1.294
0.961	-2.174	-1.487	-2.172	1.893	1.867	0.752
-0.223	-1.709	-0.854	-0.605	3.171	3.399	0.316
-0.133	-1.830	-1.866	-1.331	1.685	1.860	0.544
-1.294	-1.358	0.668	0.787	3.345	3.979	1.054
-0.608	0.347	0.010	1.484	1.111	1.700	-0.987
-2.751	-1.221	-1.368	-0.439	1.061	1.706	-0.947
1.587	-2.134	-1.524	-1.221	1.612	1.828	2.250
-2.041	-0.488	-0.710	0.315	0.969	1.360	-0.803
-0.904	-1.212	-0.550	-0.241	1.814	2.202	0.357
0.264	-3.656	-1.334	-1.538	0.615	1.025	0.687
-1.379	-1.819	-1.906	-0.945	1.327	1.640	1.071
-0.663	-1.967	-1.455	-0.920	2.880	3.322	1.086
0.149	-1.161	-0.271	-0.360	2.472	2.259	1.046
-1.782	-0.773	-0.012	-0.595	2.138	2.507	0.272
0.277	-1.180	-1.835	-1.454	0.855	1.154	1.173
0.415	0.133	0.626	-0.359	1.033	0.665	1.436
0.810	-3.374	-3.655	-2.455	1.011	1.373	0.584
-0.171	-0.881	-1.402	-0.966	0.099	0.134	-0.637
0.261	-3.550	-3.974	-2.622	-0.588	-0.276	1.182
0.629	-2.796	-2.852	-1.830	0.331	0.625	-0.207
1.348	-1.472	-1.355	-1.060	-0.876	-0.739	1.363
0.128	-1.123	-1.132	-1.372	-0.035	0.729	0.229
0.044	-0.923	0.753	0.210	1.159	1.288	0.998
-0.109	-0.517	-0.480	-0.092	-0.765	-0.604	0.807
0.233	-0.385	-0.947	-0.130	-0.313	-0.741	-0.091
-0.792	1.588	0.552	0.434	1.164	0.979	0.381
-1.687	-1.813	-1.241	0.181	-0.086	0.202	-0.779
0.104	-1.399	1.194	0.807	1.008	1.056	1.159
0.005	-0.586	-0.491	-0.433	-0.219	0.004	-0.117
-0.730	-0.874	-2.168	-0.972	-0.791	-0.809	-0.928
1.262	-2.427	-1.556	-1.733	1.591	1.354	0.906
0.703	-1.613	-0.924	-1.351	0.159	0.129	0.956
0.121	-0.180	0.313	-0.578	1.746	1.759	0.360
-0.781	1.590	1.046	0.838	2.628	2.730	0.930
1.014	0.425	0.466	0.328	2.709	2.652	1.400
-0.845	-0.187	-0.218	0.269	-0.629	-0.516	-0.162
0.236	-0.261	-0.291	-0.414	1.131	1.202	0.330
-1.251	0.867	1.264	1.143	-0.815	-0.909	-0.265
-2.127	1.653	1.159	1.252	0.357	0.450	-0.700
-1.096	-2.635	-1.752	-1.608	0.169	0.403	-0.715
-0.161	-2.225	-2.685	-1.328	0.741	0.700	-0.455
-0.013	-1.266	-0.902	-0.234	-0.392	-0.472	-0.303
-0.679	-0.970	-0.620	-0.585	-0.382	-0.545	0.242

-0.892	0.825	0.147	0.235	0.414	0.432	-0.156
-0.693	-0.948	-0.206	0.623	1.418	1.488	-0.428
0.622	-1.070	-0.855	-1.441	1.420	1.426	0.701
-1.943	1.085	-0.216	0.992	-1.292	-1.443	-1.492
-2.010	-1.464	-2.009	-0.088	0.103	0.180	-1.033
0.359	-0.763	-0.630	-1.026	-0.280	-0.241	-0.185
-1.948	2.034	1.112	1.234	0.733	0.725	-0.287
-0.916	2.605	2.384	1.322	-0.678	-0.915	0.077
-1.818	-2.255	-2.333	-1.807	1.465	1.670	-0.302
-0.456	-1.780	-1.176	-0.507	0.613	0.831	-0.440
-1.000	-2.407	-1.546	-0.371	-0.116	0.103	-0.580

TF mode Integral intensity (volume weighted)	TF mode Integral intensity (mean int. weighted)	TF mode Integral intensity	TF Dist. to nuc. (volume weighted nuc. size normalized)	TF Dist. to nuc. (mean int. weighted nuc. size normalized)	TF Dist. to nuc. (nuc. size normalized)	TF/EGF co- localization
1.782	1.460	2.096	1.506	1.232	0.418	-3.661
0.476	0.248	-0.283	-0.499	-0.519	-0.467	0.642
0.823	0.638	0.363	-0.057	-0.191	0.306	2.164
0.426	0.366	-0.091	0.350	0.608	1.875	0.732
0.564	1.022	1.188	1.027	0.951	1.267	1.311
0.966	1.155	0.892	0.186	0.137	-0.027	-0.100
1.062	1.204	1.168	1.732	1.963	2.318	-0.112
0.912	1.912	0.776	0.357	0.244	0.878	1.026
1.339	1.706	0.132	-0.377	-0.026	0.389	2.986
1.919	2.158	0.913	0.500	0.850	2.715	2.846
0.983	1.437	1.818	0.306	0.571	1.637	-0.388
-1.192	-0.759	-0.130	-0.039	0.213	0.557	1.278
-0.511	-0.804	-0.752	0.299	0.560	0.588	-0.876
0.550	1.965	0.347	-0.604	-0.595	0.213	2.834
-1.125	-1.150	-1.645	0.699	0.863	0.924	-1.968
0.250	0.518	-0.160	-0.708	-0.679	-0.136	-0.699
0.714	1.055	0.471	1.383	1.424	1.851	0.803
0.989	0.870	-0.488	1.357	1.622	2.274	0.367
2.920	4.640	0.956	0.675	0.875	1.375	0.442
-0.310	-0.053	-0.330	-0.585	-0.660	-0.301	-0.548
-0.458	-0.611	-0.308	0.123	0.099	0.670	-0.026
0.866	0.860	1.202	-0.525	-0.507	-0.425	0.880
-1.375	-1.365	-1.262	2.167	2.513	2.808	-1.584
-0.312	-0.116	0.082	1.502	1.555	1.578	-1.917
-1.029	-1.394	-1.133	1.150	1.391	4.025	-0.943
-0.994	-0.970	-0.609	0.884	0.887	2.146	-0.256
-0.885	-1.131	-1.104	0.604	0.511	2.415	-1.139
-0.017	-0.590	-0.867	0.710	0.596	0.348	-1.712
2.465	3.092	-1.875	-0.827	-0.294	1.474	1.807
-0.382	0.194	-0.005	1.958	1.896	3.508	-1.065
-0.220	-0.229	0.525	2.063	2.077	4.029	1.090
-0.632	-0.779	-1.320	1.478	1.450	0.757	-1.020
-0.797	-1.085	-1.542	1.444	1.698	1.586	-2.066
-0.197	-0.663	-1.182	0.001	-0.167	-1.106	-1.720
-1.093	-1.420	-1.467	0.341	0.514	-0.242	-2.527
0.153	-0.044	0.216	0.953	0.874	1.796	-0.611
-0.329	-0.336	-0.442	0.593	0.741	0.431	-0.476
-0.851	-0.971	0.111	0.802	0.960	1.461	-0.277
-0.392	-0.501	-0.198	1.194	1.479	2.821	-1.671
1.018	1.256	-0.440	0.265	0.048	-0.546	-1.248
2.948	3.643	0.951	-0.927	-0.574	0.680	5.218
1.459	2.245	1.738	-1.106	-1.216	-0.390	0.927
-0.178	0.152	0.214	-0.974	-1.077	-1.291	-0.281
1.146	1.071	-0.255	-1.044	-0.996	-0.155	1.129
0.708	1.495	0.777	0.417	0.530	2.582	3.291
0.239	0.964	0.994	0.575	0.570	1.805	1.359

1.362	1.174	0.890	0.102	0.223	0.097	0.942
0.655	0.785	1.737	0.176	0.228	1.684	0.771
1.313	1.205	0.850	-0.393	-0.474	-0.261	1.642
1.942	1.801	1.599	-0.778	-0.555	-0.552	0.739
-1.515	-1.250	-1.340	-0.800	-0.581	-0.441	-1.385
1.379	0.888	0.884	-0.111	-0.223	-0.804	0.165
-1.285	-1.075	-1.145	-0.254	-0.041	-0.240	-0.129
0.283	0.206	0.088	-1.029	-0.608	-0.441	1.079
0.863	0.450	0.463	1.249	0.874	0.812	0.241
1.190	1.390	1.272	0.227	0.363	0.696	0.576
2.416	0.067	0.042	0.418	0.576	1.246	6.048
2.789	1.857	1.580	0.473	0.315	-0.516	0.594
-1.002	-0.754	-0.864	-0.557	-0.618	-1.175	-1.127
2.075	1.862	1.682	-0.186	-0.135	-0.348	0.846
0.958	0.322	0.237	-0.654	-0.454	-0.715	0.093
0.807	0.337	0.293	-0.539	-0.515	-0.336	2.242
1.357	0.979	1.020	-0.458	-0.468	-0.959	-0.168
-1.562	-1.284	-1.477	-0.422	-0.132	0.276	2.458
1.272	0.896	0.561	-0.107	0.053	-0.337	-0.659
2.657	2.335	2.351	1.064	1.246	1.359	2.699
0.519	0.364	0.314	0.054	0.129	0.222	0.070
-0.952	-0.937	-0.912	0.364	0.290	0.354	-1.087
-3.517	-2.808	-3.068	-0.612	-0.543	-0.351	-4.241
-0.667	-0.885	-1.026	-0.357	-0.304	-0.071	-0.274
-1.924	-1.578	-1.597	0.745	0.942	1.202	-1.520
-2.544	-2.093	-2.233	0.439	0.670	0.774	-2.147
0.907	1.028	0.406	-0.605	-0.416	0.177	3.203
-0.132	-0.205	-0.273	0.064	0.332	0.590	-1.124
-0.776	-0.793	-0.663	-0.467	-0.364	0.207	-0.124
0.805	0.188	0.480	0.314	0.255	0.019	-0.338
-1.101	-1.248	-1.179	-0.991	-0.768	-0.318	-0.055
0.483	0.148	0.191	-0.016	0.072	0.103	0.824
-1.418	-1.267	-1.356	0.153	0.126	-0.076	-1.343
-1.249	-1.046	-1.115	0.639	0.679	0.495	-0.821
0.713	0.664	0.676	1.193	1.040	0.926	-0.914
1.078	0.773	1.056	1.076	1.103	1.090	-0.018
-0.081	-0.262	-0.207	1.354	1.631	2.188	-0.375
0.814	-0.184	-0.012	0.363	0.753	1.350	2.361
-0.049	-0.380	-0.226	0.783	0.803	1.024	-0.346
-1.068	-1.087	-0.805	0.239	0.560	0.916	-0.841
0.482	0.290	0.370	0.644	0.580	0.568	0.749
-1.286	-1.235	-1.145	-0.219	-0.411	-0.820	-1.438
-0.820	-1.119	-0.989	-0.012	0.031	0.102	-1.364
-1.216	-1.347	-1.201	1.020	0.854	1.371	0.142
0.384	0.036	0.020	0.639	0.353	0.182	-0.794
-0.300	-0.490	-0.219	1.018	0.993	1.248	-0.995
0.127	0.321	0.368	1.858	1.763	1.833	-0.570
-2.339	-2.209	-2.174	0.305	0.393	0.978	-0.406
0.621	0.244	0.887	0.408	0.263	0.011	-0.797
-3.147	-2.804	-2.749	0.088	0.117	0.368	-1.682
-2.954	-2.550	-2.572	0.157	-0.132	0.018	-3.589
-2.917	-2.837	-2.970	1.234	1.460	2.026	-2.652
-2.382	-1.896	-1.945	0.959	1.151	1.184	-3.056

-1.252	-1.511	-1.191	1.425	1.354	1.610	-0.373
-1.482	-1.282	-1.083	1.615	1.884	1.761	-0.914
-1.399	-1.547	-1.342	0.879	1.444	2.529	3.231
-0.141	-0.296	-0.415	-0.769	-0.688	-0.851	-1.472
2.606	1.277	1.495	0.184	0.290	0.169	0.332
1.445	1.741	1.718	1.136	1.137	0.745	0.632
0.840	0.590	0.410	-0.162	0.109	0.543	1.090
-2.740	-2.218	-2.335	0.050	-0.039	0.449	-0.910
0.028	0.527	0.122	-0.456	-0.226	-0.144	0.738
1.101	0.883	0.988	-0.061	-0.076	-0.227	-0.398
-0.228	0.101	-0.252	0.294	0.530	1.031	1.015
0.342	-1.392	-1.569	-1.680	-1.216	0.539	0.354
-1.561	-1.320	-1.349	-1.331	-1.237	-1.954	-1.552
-0.345	-0.453	-0.377	-1.255	-1.020	-1.435	1.289
0.143	0.286	-0.083	-0.341	-0.161	-0.377	3.499
-0.086	-0.379	-0.370	-0.991	-0.988	-1.457	1.583
-2.315	-2.119	-2.206	-0.935	-0.700	-0.263	-0.886
0.339	0.324	0.172	-0.570	-0.127	0.137	2.712
-0.652	-0.609	-0.772	0.300	0.647	1.301	6.138
1.316	1.291	0.998	0.389	0.645	0.456	0.720
-1.043	-0.735	-0.889	1.312	1.586	1.358	-0.942
0.032	-0.564	-0.554	-0.526	-0.149	0.360	2.419
-2.238	-1.860	-1.989	0.666	0.650	1.323	-1.478
-1.185	-1.197	-1.253	-0.710	-0.586	-0.429	-1.655
-2.907	-2.429	-2.545	-1.040	-0.713	-0.493	-3.768
-1.199	-1.157	-1.205	-0.562	-0.410	0.047	0.440
-3.243	-2.967	-3.162	-0.673	-0.535	0.295	-0.987
-2.556	-1.926	-2.087	-0.108	0.011	0.421	-1.120
-2.422	-2.058	-2.127	0.209	0.308	1.175	-2.416
-1.663	-1.485	-1.579	0.682	0.911	1.319	0.276
1.841	0.606	0.814	0.138	0.372	0.765	2.396
0.562	0.298	0.080	-0.094	0.076	0.337	2.111
-1.803	-1.653	-1.848	-0.027	0.216	1.237	2.907
-1.510	-1.330	-1.282	0.684	0.789	1.587	-0.223
-1.068	-0.740	-0.901	-0.101	-0.091	0.364	0.749
-0.698	-0.803	-0.783	0.180	0.355	0.562	0.180
-1.287	-0.932	-1.126	0.794	1.118	1.854	1.570
-1.202	-0.970	-0.851	-0.038	0.438	1.250	3.567
-1.649	-1.252	-1.340	0.507	0.648	0.927	-2.294
-0.763	-0.347	-0.438	0.086	0.043	0.746	2.684
-1.892	-1.542	-1.375	0.131	0.318	0.850	0.906
-2.695	-2.167	-2.208	-0.073	0.125	0.111	-1.733
-2.622	-2.257	-2.277	-1.851	-1.940	-2.086	-2.708
-2.886	-2.250	-2.385	0.430	0.705	1.225	-2.106
-1.678	-1.499	-1.380	0.204	0.284	-0.012	-1.985
-0.543	-0.891	-0.634	1.118	1.186	1.150	0.573
-1.509	-0.972	-0.893	0.145	0.196	0.319	-1.582
0.110	0.874	0.786	0.857	0.715	0.806	0.946
-2.498	-2.079	-2.090	0.168	0.107	0.533	-2.822
-2.520	-2.057	-2.015	-0.359	-0.339	0.083	-0.448
-1.047	-1.226	-0.982	0.572	0.495	0.479	-1.014
-4.788	-4.005	-4.640	-1.819	-1.736	-1.539	-4.687
-2.028	-1.729	-1.703	-0.470	-0.468	-0.531	-3.664

-3.181	-2.588	-2.760	-0.290	-0.310	-0.229	-3.226
-1.901	-1.447	-1.474	0.083	0.027	0.003	-1.728
-0.866	-0.691	-0.488	-0.106	0.197	0.959	0.260
-1.780	-1.408	-1.310	0.258	0.238	1.048	0.531
-1.606	-1.202	-1.381	-0.492	-0.248	0.306	0.900
-1.297	-1.178	-1.126	0.462	0.559	0.978	0.580
1.541	1.221	0.953	-0.982	-0.685	-0.439	0.617
-0.213	-0.261	-0.330	-0.399	-0.271	-0.112	-0.107
1.199	0.827	0.858	-0.259	-0.323	-0.567	-0.232
-2.341	-1.750	-1.868	-0.939	-0.861	-0.592	-0.980
3.250	2.941	2.492	-0.121	0.156	0.285	3.665
-0.920	-0.717	-0.958	-0.013	0.606	1.601	0.614
-1.417	-0.834	-1.092	0.063	0.139	0.171	-2.588
-3.257	-2.652	-2.798	0.368	0.460	0.957	-2.021
1.175	0.589	0.579	-0.010	0.088	0.687	3.152
-1.788	-1.362	-1.610	-0.736	-0.221	0.303	1.463
-1.741	-1.425	-1.487	-0.199	-0.104	-0.016	-2.356
-1.988	-1.542	-1.716	0.281	0.329	0.585	-3.456
-0.952	-0.622	-0.781	0.145	0.454	0.655	-1.906
-1.121	-0.818	-0.930	-0.016	0.171	1.154	3.529
-1.495	-1.015	-1.164	0.015	0.329	0.673	0.287
1.799	1.532	1.530	0.424	0.443	0.233	0.590
0.045	-0.034	-0.023	0.166	0.148	-0.018	1.043
-0.547	-0.355	-0.369	-0.989	-0.689	-0.094	2.148
1.501	0.788	0.899	-0.883	-0.839	-0.898	0.555
-2.581	-2.204	-2.249	-0.583	-0.233	-0.067	-1.477
-2.245	-1.567	-1.871	0.164	0.547	0.899	0.010
4.125	3.734	3.470	-0.677	-0.622	-0.243	0.875
-1.365	-1.158	-1.250	-0.666	-0.733	-0.831	-0.888
-1.544	-1.238	-1.210	-0.347	-0.254	0.981	1.154
-0.210	-0.026	-0.219	-0.165	-0.296	0.042	0.015
-0.311	-0.282	-0.327	0.255	0.346	0.893	1.771
1.157	0.646	0.806	0.285	0.192	0.497	1.241
-0.776	-0.826	-0.838	-0.418	-0.425	-0.026	-0.611
-0.247	0.048	-0.257	0.047	0.159	0.299	0.264
-2.662	-2.147	-2.259	0.028	0.203	0.533	-1.612
-1.358	-1.171	-1.223	0.082	0.246	0.361	-1.473
0.011	-0.029	-0.081	-0.290	-0.312	-0.258	1.055
-1.702	-1.488	-1.436	-0.571	-0.423	-0.080	-2.123
-2.105	-1.739	-1.791	-0.436	-0.362	0.073	-0.548
0.257	0.084	-0.012	-0.467	-0.499	-0.442	0.864
-1.972	-1.509	-1.345	0.210	0.294	1.219	-0.162
-0.711	-0.784	-0.486	0.962	1.042	1.375	-0.908
-1.859	-1.702	-1.570	-0.135	-0.251	0.125	-0.426
-2.596	-2.030	-2.100	-0.591	-0.471	-0.427	-3.372
-1.212	-0.979	-1.129	1.719	1.816	1.578	0.334
-0.816	-1.624	-1.509	-0.610	-0.186	1.309	3.321
1.318	0.924	1.058	0.196	0.163	0.579	-0.514
-1.446	-1.099	-1.192	-0.027	0.151	0.553	0.278
-0.366	-0.809	-0.651	0.886	0.594	0.655	0.902
-1.156	-0.967	-0.869	0.267	0.420	0.847	1.171
-2.100	-1.740	-1.498	0.153	-0.164	0.068	0.059
-2.301	-1.924	-1.907	-0.474	-0.313	-0.790	-2.064

-2.479	-2.099	-2.124	-0.150	0.095	0.885	1.674
-2.353	-2.240	-2.244	0.410	0.529	0.606	-1.764
-1.367	-1.139	-1.184	-1.149	-1.198	-1.531	-2.259
-1.740	-1.489	-1.606	-0.315	-0.238	0.011	-0.953
-2.125	-1.636	-1.577	-0.091	-0.117	0.385	-1.183
0.323	0.250	0.239	0.178	0.358	0.636	-0.311
2.007	1.486	1.328	-0.156	-0.097	-0.098	1.204
-2.652	-2.060	-2.077	-0.096	-0.028	0.559	-0.558
0.284	0.082	0.195	0.227	0.308	0.256	-1.224
1.881	1.760	1.971	0.342	0.486	0.789	0.057
1.317	1.518	1.382	-1.047	-0.841	-0.593	0.497
1.179	0.805	0.807	0.523	0.570	1.008	0.260
1.997	1.363	1.073	0.765	0.882	1.100	1.433
2.776	2.404	1.946	0.902	0.989	1.928	5.168
0.726	0.782	0.683	-0.277	-0.141	0.224	2.248
3.385	2.477	1.884	-0.300	-0.075	0.526	3.471
0.293	0.219	0.063	-0.775	-0.601	-0.471	0.934
-1.205	-0.938	-1.151	-0.156	-0.051	0.593	0.612
1.424	1.494	1.108	0.642	0.587	0.253	0.201
-1.187	-0.771	-0.855	0.511	0.676	1.387	1.364
4.113	4.293	3.482	1.167	1.285	1.585	1.239
-0.318	-0.408	-0.501	0.916	1.310	2.174	2.728
1.693	1.126	1.156	1.533	1.497	1.421	0.347
-1.772	-1.274	-1.209	0.211	0.226	0.987	0.625
-0.811	-0.844	-0.820	0.166	0.199	0.833	0.972
-2.024	-1.593	-1.699	0.484	0.548	0.662	-1.499
3.302	2.876	2.872	-0.887	-0.663	0.458	2.381
-0.556	-0.432	-0.375	0.333	0.362	0.285	0.156
-2.009	-1.693	-1.764	-0.834	-0.553	-0.088	-0.324
-0.038	0.043	0.091	0.414	0.389	0.949	1.372
2.368	1.971	2.025	1.789	1.568	1.156	0.471
-1.356	-1.172	-1.205	-0.102	0.149	0.655	0.073
-0.531	-0.610	-0.377	0.136	0.350	0.758	1.457
1.538	1.257	1.116	0.249	0.472	0.420	2.808
-0.389	-0.644	-0.584	0.498	0.678	1.214	0.358
-0.819	-1.467	-1.442	-1.545	-1.410	-0.128	2.806
-0.368	-0.206	-0.461	0.483	0.634	1.192	1.811
-2.444	-2.008	-2.077	0.140	0.362	1.139	-0.618
-0.756	-0.647	-0.654	0.068	0.362	0.944	1.977
-1.506	-1.501	-1.444	-0.189	-0.041	0.935	2.033
-2.333	-2.082	-2.099	0.100	0.124	0.704	-2.211
0.674	0.401	0.733	0.629	0.748	1.053	1.794
-0.878	-0.556	-0.330	0.630	0.687	1.040	1.795
-1.010	-0.746	-0.570	0.680	0.989	1.467	1.025
-1.251	-1.311	-0.965	1.218	1.424	2.685	0.449
-2.610	-2.217	-2.170	0.672	1.035	1.978	-1.935
-3.012	-2.539	-2.507	0.659	0.847	1.832	1.519
1.736	1.283	1.253	0.482	0.680	0.949	1.711
-1.201	-0.980	-0.845	0.517	0.549	0.984	-0.190
-0.847	-0.564	-0.533	0.966	1.387	2.245	0.020
-1.053	-1.051	-1.071	0.494	0.423	0.994	1.214
0.825	0.443	0.667	-0.141	0.051	0.542	1.789
-2.358	-1.974	-1.820	-0.094	-0.224	-0.068	-1.387

-1.667	-1.567	-1.485	0.453	0.360	0.939	-0.058
-3.199	-2.602	-2.723	-0.833	-0.884	-0.751	-4.185
-2.130	-1.742	-1.788	-1.085	-0.866	-0.625	-1.352
-0.582	-0.695	-0.543	0.551	1.007	1.600	0.812
-1.759	-1.798	-1.689	1.389	1.230	1.298	-1.712
-1.001	-0.933	-0.650	0.374	0.498	0.516	-0.147
0.590	0.886	0.297	-1.346	-1.161	-0.353	3.553
0.598	0.272	-0.090	-0.970	-0.855	0.500	3.508
-0.142	0.177	-0.916	0.881	1.395	2.716	4.976
0.770	1.068	1.132	0.754	0.944	0.656	1.333
0.607	1.249	0.332	0.032	0.112	1.402	2.336
0.913	1.316	0.124	-0.153	-0.078	0.901	1.185
0.346	0.633	0.220	0.815	1.200	3.257	1.906
1.567	2.462	1.045	0.099	0.189	1.990	2.275
-0.524	-0.306	-0.943	-0.274	-0.061	2.128	2.286
-0.005	-0.026	-1.112	-1.242	-1.204	-0.490	1.603
1.475	1.897	1.853	0.187	0.210	0.971	2.818
-0.600	-0.663	-0.872	-0.193	-0.010	1.276	0.592
0.793	0.827	0.236	0.209	0.294	2.042	1.838
-0.478	0.123	0.434	11.864	12.714	10.801	2.296
0.174	0.949	0.951	0.035	0.173	2.013	0.253
0.872	1.641	0.992	0.076	0.201	1.925	3.683
2.814	2.844	0.757	-0.034	-0.020	0.632	0.136
2.443	3.660	0.131	-0.206	0.124	0.571	0.925
0.350	0.922	0.925	-0.739	-0.891	-0.148	3.111
1.168	1.473	1.225	-0.355	-0.343	-0.471	0.654
0.011	0.344	0.138	-0.197	-0.113	0.625	3.539
-0.464	-0.385	-0.853	0.645	0.724	1.349	-1.445
-0.755	0.058	0.718	-0.589	-0.820	0.282	2.002
-0.635	-0.573	-0.562	0.804	0.903	1.842	-0.408
-0.809	-0.684	1.136	0.137	0.218	1.259	0.752
0.598	0.458	0.299	-0.050	-0.155	0.216	0.996
0.301	0.577	0.904	0.130	-0.089	0.471	0.112
-0.549	-0.322	0.612	-0.252	-0.159	0.005	-0.559
-0.512	-0.830	-0.261	-0.588	-0.540	-0.681	-1.452
1.505	1.040	0.207	1.717	1.590	1.600	-0.995
-1.023	-1.038	-0.871	-1.155	-1.087	-1.163	-0.959
0.416	0.989	1.161	0.932	0.933	1.147	0.443
-0.465	-0.670	-0.311	0.735	0.718	1.139	-1.224
-1.134	-1.229	-1.153	1.682	1.628	2.470	-2.456
0.774	0.832	0.535	0.564	0.260	0.216	-0.387
0.148	0.417	0.627	0.007	-0.019	1.044	-0.636
0.934	1.045	0.081	0.897	0.966	2.310	-0.005
1.659	2.793	1.049	-0.916	-1.007	-0.912	0.183
2.369	2.491	1.307	-0.800	-0.937	-0.658	2.050
-0.204	-0.327	-0.253	-0.591	-0.682	-0.683	-0.732
0.563	0.589	0.156	0.487	0.645	1.008	-0.219
-0.851	-0.828	-0.260	1.849	1.841	3.136	-0.445
2.062	3.051	-0.715	0.112	-0.064	-0.037	0.567
-0.774	-0.589	-1.022	1.993	2.318	2.793	-1.224
-0.297	-0.651	-0.727	0.197	-0.016	1.048	-0.792
-0.927	-0.418	-0.455	0.973	1.020	1.496	-1.445
-0.079	-0.210	0.058	0.680	0.712	1.598	-0.722

-0.068	-0.104	-0.340	0.256	0.395	1.582	-1.014
-0.568	0.019	-0.488	-0.040	-0.184	1.247	0.187
0.862	1.033	0.325	-0.058	-0.330	-0.143	-0.357
-1.547	-1.588	-1.591	1.388	1.561	2.085	-1.883
-0.810	-1.062	-1.135	-0.282	-0.453	-0.574	-1.393
0.306	0.026	-0.495	0.951	0.849	1.983	-0.933
0.096	0.155	-0.341	2.357	2.289	2.184	-0.791
0.029	-0.547	0.135	0.492	0.515	0.999	-1.543
0.038	0.022	-0.582	-0.553	-0.729	-0.926	2.382
-0.937	-0.731	-0.588	-0.005	-0.025	0.329	-1.198
-1.065	-1.026	-0.735	0.338	0.340	1.624	0.014

EGF/TF co-localization
-6.419
1.241
0.375
0.055
0.745
-0.016
-0.395
0.217
-0.174
0.455
0.336
-0.834
-0.424
0.185
-2.441
-0.101
-0.132
0.174
-0.453
-0.579
-0.499
0.804
-0.718
-0.250
-0.596
-0.601
-1.127
-0.715
-1.699
0.324
1.035
-1.405
-1.734
-1.282
-1.872
0.020
-0.343
0.385
-0.002
-0.588
2.012
0.734
-1.999
0.258
1.803
0.997

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1.119
0.095
0.389
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0.595
-0.803
-0.021
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-1.188
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0.304
-0.635
-3.840
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-1.364
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-0.092
0.085
0.292
-1.764
-0.037
-0.617
-0.812
-0.103
1.504
0.157
1.045
0.409
-0.245
0.314
-0.932
-1.115
-1.112
0.410
-0.016
0.925
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-0.140
-3.504
-2.511
-3.535
-2.409

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0.080
0.136
-0.262
0.404
0.693
0.537
-3.207
-0.307
0.673
-0.321
-3.703
-2.641
-0.374
0.803
-0.047
-2.206
0.243
0.634
1.260
-1.563
-0.297
-3.420
-0.730
-3.705
-0.341
-3.904
-2.098
-1.825
-0.057
0.856
0.490
-0.004
-2.127
-0.305
-0.293
0.384
0.444
-1.713
-0.150
0.067
-1.250
-2.371
-1.428
-0.564
0.503
-0.476
0.844
-3.515
-1.270
0.267
-6.193
-1.804

-3.073
-1.159
-0.732
-0.691
-1.661
-1.650
0.665
-0.326
0.790
-2.707
1.429
0.057
-1.775
-3.136
0.642
-1.255
-1.651
-2.264
-0.596
0.324
-2.074
1.306
-0.273
-0.254
0.617
-1.443
-1.773
1.789
-0.727
-0.971
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-0.656
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-1.850
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1.400
-0.890
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0.517
-0.315
0.190
-1.172
-0.554
-1.200
-1.135
0.706
0.887
0.669
-1.129
-1.437
-0.534
1.729
-0.158
0.444
-0.441
0.903
-1.422

-0.415
-2.483
-1.260
0.101
-0.651
-0.199
0.071
0.439
0.222
0.135
1.375
0.214
0.723
0.814
-1.350
-0.895
0.830
-0.898
0.582
1.168
0.157
0.540
0.013
-0.489
0.849
0.696
0.176
-1.749
0.720
-0.449
0.274
-0.113
0.686
0.288
-1.201
0.382
-1.221
-0.220
-1.183
-5.131
0.128
0.041
0.134
0.422
1.128
-0.209
-0.315
0.697
-0.692
-1.160
-0.211
-1.126
0.321

-0.357
0.078
0.266
-1.370
-1.251
-0.371
-0.205
0.287
0.752
-0.841
-0.690

Supplementary Table 4: Cluster Components with Top Rankings Bold

<u>N.1</u>	<u>N.2</u>	<u>N.3</u>	<u>N.4</u>	<u>N.5</u>	<u>N.6</u>
IBS-101	IBS-15	IBS-100	J443E	IBS-35	IBS-34
IBS-102	IBS-17	IBS-11	J447C	IBS-36	IBS-45
IBS-103	IBS-30	IBS-16	J453E	IBS-41	IBS-58
IBS-104	IBS-43	IBS-46	J454E	IBS-42	IBS-64
IBS-105	IBS-49	J448E	J500E	IBS-44	IBS-65
IBS-106	IBS-50	J489Y	J501E	IBS-47	J438Y
IBS-107	IBS-63	J524Y	J507Y	IBS-56	J502E
IBS-2	IBS-83	<u>J530Y</u>	J515Y	J491C	J503E
IBS-20	J419E	<u>J533Y</u>	J521Y	J505Y	J514E
IBS-21	J429E	J534E	J522E	J511Y	<u>J554Y</u>
IBS-23	J460Y	J547E	<u>J525E</u>	<u>J538E</u>	J563Y
IBS-24	J462E	J549E	J528E	J558E	J565Y
IBS-33	J469Y	<u>J550E</u>	J529E	J616E	J568E
IBS-66	<u>J473C</u>	<u>J555Y</u>	J531Y	J617E	<u>J573Y</u>
IBS-68	J476S	J557E	J539C	J619Y	J585Y
IBS-79	<u>J479Y</u>	J594E	<u>J551E</u>	J622Y	J624E
IBS-85	J482C	J597E	J553E	<u>J625E</u>	<u>J670Y</u>
<u>IBS-87</u>	J483C	J598E	J556Y	J627E	<u>J673Y</u>
IBS-95	J486Y	J604E	J562Y	<u>J629E</u>	J675Y
IBS-96	J495Y	J606E	J575Y	J633E	<u>J688Y</u>
IBS-97	J497Y	J609E	J580Y	J634E	<u>J707Y</u>
IBS-98	J508Y	J612Y	J590Y	<u>J664Y</u>	KA-14
J405S	J509Y	J621E	J593C	<u>J674Y</u>	KA-30
J428E	J510Y	<u>J626Y</u>	J595E	<u>J676Y</u>	KA-31
J430E	J513Y	J635E	J601Y	<u>J677Y</u>	KA-32
J431Y	J532Y	J649Y	J610Y	<u>J681Y</u>	KA-36
J437Y	J537E	<u>J651E</u>	J637Y	<u>J689Y</u>	KA-37
J439S	J540C	J653Y	<u>J684Y</u>	J690C	KA-50
J444C	J541E	<u>J655Y</u>	<u>J687Y</u>	KA-42	KA-52
J449E	J542E	<u>J656Y</u>	J705Y	KA-53	
J455Y	J543Y	<u>J661Y</u>	KA-13		
J459Y	<u>J545Y</u>	<u>J663Y</u>			
J475E	J546Y	<u>J667Y</u>			
J477C	J552E	<u>J668Y</u>			
J478C	J559S	<u>J671Y</u>			
J480Y	J560S	<u>J678Y</u>			
J484C	J561Y	<u>J680Y</u>			
J485E	J564Y	<u>J682Y</u>			
J488Y	J566E	<u>J683Y</u>			

J494E	J567E	<u>J693Y</u>
J506Y	J569E	<u>J694Y</u>
J518Y	J570E	<u>J697Y</u>
J519Y	J571E	<u>J702Y</u>
J520Y	J572E	<u>J703Y</u>
J523E	J576E	<u>J714Y</u>
J536Y	J577E	J720Y
J548Y	J583E	KA-3
J578Y	J586E	
J582C	J588Y	
<u>J584E</u>	J591E	
<u>J589E</u>	J592C	
J596C	<u>J600E</u>	
J599E	J603E	
J602E	J608E	
J605Y	J611Y	
<u>J607Y</u>	J613C	
J615E	J614Y	
J623E	<u>J620Y</u>	
J636Y	J628E	
J639E	J631Y	
J640E	J632E	
J641E	J657E	
J643Y	<u>J660Y</u>	
<u>J644Y</u>	<u>J669Y</u>	
J645E	J672Y	
J646E	J685Y	
<u>J647E</u>	J686Y	
J648E	J715Y	
J650Y	J719Y	
J652E	KA-17	
J654Y	KA-22	
J658E	KA-33	
J659Y	KA-34	
J662C	KA-5	
<u>J665Y</u>	KA-7	
<u>J666Y</u>	KA-9	
J679Y		
<u>J692Y</u>		
J696Y		
J698Y		
<u>J699Y</u>		

J700E

J704Y

J706Y

J708Y

J709Y

J710Y

J711Y

J712Y

J713Y

J718Y

J775Y

KA-10

KA-12

KA-2

KA-23

KA-24

KA-25

KA-26

KA-27

KA-28

KA-29

KA-38

KA-4

KA-6

Miltefosine

Supplementary Table 5: Correlations of Endocytic Profiles to Genome-wide screen data

J607Y (N.1)			J775Y (N.1)			J647E (N.1)			Miltefosine
<u>GeneName</u>	<u>GeneID</u>	<u>Correlation</u>	<u>GeneName</u>	<u>GeneID</u>	<u>Correlation</u>	<u>GeneName</u>	<u>GeneID</u>	<u>Correlation</u>	<u>GeneName</u>
A26C3	23784	-0.749289	ABCA10	10349	0.745198	A26C3	23784	-0.807268	AAAS
ABAT	18	-0.753595	ABCA5	23461	0.736604	AAMP	14	0.793863	ABAT
ABCA6	23460	-0.761138	ABHD4	63874	0.742372	AATF	26574	0.728062	ABCA10
ABCA9	10350	0.716308	ABL2	27	0.721471	ABAT	18	-0.801598	ABLIM3
ABCB11	8647	-0.704316	ABLIM3	22885	0.705356	ABCA6	23460	-0.773631	ACRBP
ABCC3	8714	-0.754932	ABTB2	25841	0.742521	ABCA9	10350	0.759987	ACTR1B
ABI3	51225	-0.707406	ACRBP	84519	-0.703062	ABLIM3	22885	0.883493	ADAM2
ABLIM3	22885	0.801677	ACTR1B	10120	0.79081	ABRA	137735	-0.706962	ADCY4
ACBD7	414149	-0.729655	ADAM2	2515	0.777128	ACACB	32	0.724025	AFF2
ACOT6	641372	0.753541	ADAMTS8	11095	-0.701498	ACOT11	26027	0.804954	AGPAT5
ACP5	54	0.768574	ADC	113451	0.786271	ACOT6	641372	0.864927	AKAP9
ACTR1B	10120	0.731499	ADCY4	196883	0.76856	ACP5	54	0.899097	AKT2
ACTR3	10096	-0.703577	ADCY9	115	0.827035	ACSBG1	23205	0.70091	ALDH1A2
ACVRL1	94	-0.704385	AGPAT5	55326	0.805288	ACSM1	116285	0.742268	AMD1
ADAMTS16	170690	0.707688	AKR1A1	10327	-0.711302	ACTR1B	10120	0.852311	ANGPTL1
ADAMTS8	11095	-0.715962	AKT2	208	0.764096	ADAM2	2515	0.720354	ANKRD13C
ADAT1	23536	0.776074	ALDH1A2	8854	0.723117	ADAM22	53616	0.741313	APC
ADCY2	108	0.738011	ALDH1L2	160428	0.757695	ADAMTS1	9510	-0.70253	APITD1
ADH6	130	0.800205	ALDH3A2	224	0.770742	ADAMTS16	170690	0.855042	ARF6
ADM	133	-0.800725	AMD1	262	0.75041	ADAMTS19	171019	0.800914	ASB18
AFF2	2334	-0.886794	ANGPTL1	9068	0.772705	ADAMTS3	9508	0.823315	ASNS
AFG3L2	10939	-0.707117	ANKFY1	51479	-0.751065	ADAT1	23536	0.906489	ATOX1
AGBL5	60509	-0.845151	ANKIB1	54467	-0.715973	ADCY2	108	0.883841	ATP1A2
AGT	183	0.71092	ANKRD19	138649	0.750171	ADCY3	109	0.8095	ATP2B3
AIFM1	9131	-0.720768	ANKRD35	148741	0.797602	ADCY8	114	0.779642	AUH
AKAP4	8852	0.766782	APC	324	0.71159	ADH6	130	0.826694	AUP1
AKAP9	10142	0.817062	ARHGAP25	9938	-0.759201	ADNP2	22850	0.739558	bA16L21.2.1
AKR1CL2	83592	-0.785763	ARHGDIB	397	0.77267	ADPRHL2	54936	0.765599	BCL2L1
AKT1	207	0.767643	ARHGEF2	9181	0.771605	AFF2	2334	-0.799363	BCL6B
ALCAM	214	0.73389	ASNS	440	0.709695	AFG3L2	10939	-0.708364	BCMO1
ALDH1A2	8854	0.772244	ASPSCR1	79058	-0.752233	AGA	175	0.76863	BCR
ALKBH4	54784	0.744419	ATOX1	475	0.747189	AGBL4	84871	0.78427	BDH2
ALOXE3	59344	0.716551	ATP1A2	477	0.807746	AGPAT2	10555	0.763205	BNC2
AMPD2	271	0.715102	ATP4A	495	0.700036	AGT	183	0.72461	BPNT1
AMT	275	0.702626	AUH	549	0.747127	AGTPBP1	23287	0.840264	BSPRY
ANAPC11	51529	0.773325	AUP1	550	-0.735817	AHRR	57491	0.782927	BTBD8
ANGPTL2	23452	-0.793519	B4GALT2	8704	0.714744	AHSA1	10598	0.824309	C10orf104
ANGPTL3	27329	0.711084	B9D1	27077	0.784069	AIPL1	23746	0.745908	C10orf12
ANKRA2	57763	-0.707427	bA16L21.2.1	548645	-0.716619	AKAP7	9465	0.751277	C14orf100
ANKRD12	23253	-0.761882	BCL2L1	598	0.808813	AKAP8L	26993	0.829686	C14orf108
ANKRD13C	81573	-0.709759	BCL6B	255877	-0.70051	AKAP9	10142	0.772588	C14orf133

ANKRD16	54522	-0.809818	BCMO1	53630	0.804278	AKR1B1	231	0.77903	C14orf45
ANKRD25	25959	-0.733549	BDH2	56898	0.838998	AKR1C1	1645	-0.723165	C15orf34
ANKRD38	163782	-0.722464	BDP1	55814	0.73162	AKR1CL2	83592	-0.79434	C16orf3
ANKRD50	57182	0.718599	BMP3	651	0.761167	AKT1	207	0.805533	C16orf79
ANPEP	290	-0.843362	BNC2	54796	-0.727905	AKT3	10000	0.75319	C19orf52
ANXA13	312	-0.752219	BPNT1	10380	-0.78277	ALCAM	214	0.822817	C1orf174
AP1GBP1	11276	0.718685	BRMS1	25855	0.785144	ALDH1A2	8854	0.777188	C1orf85
AP1S1	1174	0.753179	BSG	682	0.723654	ALDH1B1	219	0.863024	C20orf149
AP4M1	9179	0.775177	BTBD8	284697	0.707484	ALDH3B2	222	0.763706	C20orf166
APIP	51074	-0.749015	BTN2A2	10385	0.72975	ALDOB	229	0.808855	C20orf199
AQP1	358	0.720232	C10orf104	119504	0.75345	ALOX5AP	241	0.741286	C20orf94
AQR	9716	0.79874	C10orf76	79591	-0.742156	AMELX	265	-0.794093	C2orf52
ARF6	382	-0.723966	C12orf5	57103	0.75123	AMPD1	270	-0.717539	C3orf19
ARFRP1	10139	-0.736341	C14orf100	51528	0.756141	AMTN	401138	0.773309	C5orf20
ARID4B	51742	0.757793	C14orf105	55195	0.74798	ANAPC11	51529	0.822381	C5orf35
ARPM1	84517	-0.803742	C14orf108	55745	0.708384	ANAPC5	51433	0.70441	C8A
ARR3	407	-0.701084	C14orf133	63894	0.703355	ANGEL1	23357	0.783796	CAMK1D
ARSH	347527	0.795869	C14orf45	80127	-0.783924	ANGPTL2	23452	-0.744412	CAMK2A
ASB18	401036	-0.778606	C15orf34	80072	-0.762735	ANKRD13D	338692	-0.7748	CAMK2B
ASB4	51666	-0.707179	C15orf43	145645	0.701708	ANKRD18A	253650	-0.740051	CAMK2N2
ASB8	140461	0.776375	C15orf44	81556	0.709037	ANKRD22	118932	-0.830382	CASP10
ASNS	440	0.7725	C15orf52	388115	0.737672	ANKRD25	25959	-0.705326	CBFA2T2
ATF2	1386	0.764393	C16orf79	283870	0.727423	ANKRD38	163782	-0.722425	CD3E
ATP13A2	23400	0.835989	C19orf20	91978	-0.776171	ANKRD39	51239	0.7616	CDH18
ATP6AP1	537	-0.730709	C19orf22	91300	-0.743533	ANKRD50	57182	0.835423	CDKL5
ATP6V0C	527	-0.785342	C19orf25	148223	0.728727	ANKRD54	129138	-0.747752	CDKN1A
ATP8B2	57198	-0.733422	C19orf31	404664	0.714194	ANKRD58	347454	0.738655	CDX1
ATP8B4	79895	-0.76164	C19orf52	90580	0.782665	ANTXRL	195977	0.808556	CEP350
ATPBD1B	54707	-0.723921	C1orf170	84808	-0.732363	AP1GBP1	11276	0.850185	CEP68
ATXN7L3	56970	-0.741193	C1orf174	339448	0.814028	AP4M1	9179	0.814841	CETN2
AUP1	550	-0.843785	C1orf182	128229	-0.705367	APOBEC3A	200315	-0.757821	CFLAR
AUTS2	26053	-0.782084	C1orf191	619518	0.702329	APOL5	80831	0.812992	CFP
B3GALNT1	8706	0.705864	C1orf58	148362	0.745207	AQR	9716	0.850723	CHORDC1
B3GALT2	8707	-0.821753	C1orf85	112770	-0.734916	AR	367	0.707335	CIITA
bA16L21.2.1	548645	-0.916066	C20orf10	27296	0.833709	ARF4	378	0.752644	CIR
BAZ2A	11176	0.750581	C20orf108	116151	0.719421	ARFGAP3	26286	0.702491	CITED1
BBS7	55212	0.762004	C20orf149	79144	0.811246	ARHGAP23	57636	0.756155	CKS2
BCL11B	64919	-0.724713	C20orf166	128826	-0.773612	ARHGEF16	27237	0.75123	CLDN17
BCL7B	9275	0.711849	C21orf2	755	0.719838	ARHGEF2	9181	0.779095	CLIC3
BCL7C	9274	0.755753	C21orf55	54943	0.709815	ARHGEF5	7984	0.784071	COBRA1
BCMO1	53630	0.72875	C22orf26	55267	0.727491	ARID3B	10620	-0.722373	COG4
BDH2	56898	0.769469	C2orf52	151477	0.770068	ARID4B	51742	0.765826	COL16A1
BEST1	7439	-0.79712	C3orf19	51244	-0.772274	ARL13B	200894	-0.704023	COQ3
BEX2	84707	-0.700769	C5orf26	114915	0.803793	ARL2BP	23568	0.818198	CPOX
BIRC8	112401	-0.781461	C5orf35	133383	-0.741809	ARL6IP5	10550	0.726266	CRADD

BPIL2	254240	0.751231	C9orf103	414328	0.73463	ARMC4	55130	0.755754	CRP
BRIP1	83990	-0.726926	C9orf40	55071	0.743003	ARNTL2	56938	0.771305	CSNK1D
BRSK1	84446	0.792922	CA5A	763	0.796185	ARPC4	10093	0.740706	CTNND1
BSCCL2	26580	-0.722759	CAMK1D	57118	0.718102	ARR3	407	-0.702583	CXCL12
BTBD10	84280	0.746131	CAMK2A	815	0.81976	ASB8	140461	0.822047	CXorf30
BTBD7	55727	0.725041	CAMK2B	816	0.772568	ASB9	140462	0.827715	CXorf41
BUB1	699	0.846987	CAMK2N2	94032	-0.749659	ASMT	438	0.737355	CYP17A1
C10orf10	11067	0.704273	CBFA2T2	9139	-0.717764	ASNS	440	0.836835	CYP51A1
C10orf104	119504	0.738128	CBWD2	150472	0.751192	ASPCR1	79058	-0.700384	CYTL1
C10orf107	219621	-0.83738	CCDC110	256309	0.704451	ATAD3B	83858	0.742412	DDX24
C10orf114	399726	0.704717	CCDC37	348807	0.759011	ATF1	466	0.794003	DEK
C10orf129	142827	0.788155	CCT6A	908	-0.711137	ATF2	1386	0.786092	DGKI
C10orf40	283025	0.724987	CD109	135228	0.778739	ATG2A	23130	0.762481	DHH
C12orf41	54934	-0.719224	CD52	1043	0.715743	ATOX1	475	0.867023	DIO1
C12orf64	283310	-0.78118	CD81	975	0.747818	ATP2A1	487	-0.729149	DIP
C12orf65	91574	0.724993	CDAN1	146059	0.709995	ATP5F1	515	0.774164	DKFZp761B1
C14orf106	55320	-0.777489	CDC42BPB	9578	0.772101	ATP5G1	516	0.709639	DLG4
C14orf108	55745	0.70174	CDH18	1016	0.795134	ATP5H	10476	0.754661	DMC1
C14orf133	63894	0.721407	CDKL5	6792	0.73831	ATP6V1F	9296	0.732021	DMXL2
C14orf166B	145497	-0.760846	CDKN1A	1026	0.828987	ATP8B4	79895	-0.730608	DSCR4
C14orf28	122525	0.827925	CEP350	9857	-0.743109	ATPBD1B	54707	-0.756687	DUOX2
C14orf32	93487	0.736098	CEP68	23177	-0.753956	ATXN7L2	127002	-0.706863	DUSP2
C14orf83	161145	0.708674	CES7	221223	0.744044	AUP1	550	-0.796656	DUSP21
C14orf94	54930	0.745442	CETN2	1069	-0.715852	AVEN	57099	0.736287	DYRK1A
C15orf32	145858	-0.771572	CFLAR	8837	0.755787	B3GALNT1	8706	0.806285	ECHDC2
C15orf34	80072	-0.86482	CHMP2A	27243	-0.752939	B4GALNT1	2583	0.767229	EFNB1
C15orf39	56905	-0.710345	CIITA	4261	-0.701277	B4GALT4	8702	0.732749	EIF4EBP2
C15orf43	145645	0.708539	CITED1	4435	-0.81237	bA16L21.2.1	548645	-0.820416	EIF5
C17orf83	374768	-0.750048	CLCNKB	1188	0.734897	BAT1	7919	0.727268	EPB41L4A
C17orf87	388325	0.75273	CLDN17	26285	0.722653	BBS2	583	0.830295	EPM2A
C19orf43	79002	-0.715955	CLDN9	9080	0.70807	BCDO2	83875	0.740781	ERN1
C19orf44	84167	0.77246	CLEC16A	23274	0.79157	BCKDK	10295	0.867775	EXOC6B
C19orf52	90580	0.832038	CLOCK	9575	0.779651	BCL2	596	0.736244	EXOC8
C19orf53	28974	-0.733422	CNKSR3	154043	0.715614	BCL2L13	23786	0.838481	EXOSC7
C19orf61	56006	-0.7374	CNN3	1266	0.703064	BCL7B	9275	0.814236	EXT1
C1orf102	127700	0.725846	COBRA1	25920	0.73207	BCL7C	9274	0.784981	FAM14B
C1orf111	284680	0.722695	COL16A1	1307	0.7884	BCLAF1	9774	0.793443	FAM40B
C1orf114	57821	-0.81858	COLEC11	78989	-0.853801	BCMO1	53630	0.802347	FARS2
C1orf129	80133	0.704605	CPNE4	131034	0.712025	BDH2	56898	0.713224	FBN3
C1orf156	92342	-0.727779	CRLF3	51379	0.71305	BEST1	7439	-0.810075	FCHO1
C1orf165	79656	-0.720988	CROT	54677	0.746501	BEST2	54831	0.733199	FDX1L
C1orf182	128229	-0.772474	CRP	1401	0.781771	BEX5	340542	0.865831	FEV
C1orf26	54823	-0.853716	CRYAA	1409	0.778014	BFAR	51283	0.720122	FGF20
C1orf62	254268	0.798125	CSNK1D	1453	0.772298	BGLAP	632	0.747036	FHL5
C1orf66	51093	0.744717	CSNK2A2	1459	0.700872	BHMT	635	0.813232	FKBP8

C1orf85	112770	-0.714113	CTDSPL	10217	0.757267	BICD1	636	0.716344	FLJ21075
C1QTNF1	114897	0.769267	CXCL12	6387	0.806137	BIRC8	112401	-0.702642	FLJ21438
C20orf106	200232	-0.783883	CXorf30	645090	0.73876	BMP3	651	0.718014	FOXN1
C20orf149	79144	0.766708	CXorf41	139212	0.723119	BMPR1B	658	0.795275	FRAP1
C20orf166	128826	-0.713174	CYP1A2	1544	0.70941	BNC1	646	-0.747914	FRMD6
C20orf175	140876	0.783846	CYTL1	54360	-0.765209	BNC2	54796	-0.707739	FRY
C20orf191	149934	0.730285	DCC1	79075	0.716685	BOLA2B	654483	0.791701	FYN
C20orf199	441951	0.785267	DCK	1633	0.705096	BPGM	669	0.761504	GAL
C20orf71	128861	0.719559	DDX24	57062	0.770086	BPIL2	254240	0.720243	GCH1
C20orf82	140862	0.801238	DGAT2	84649	0.740455	BRAP	8315	0.723412	GDF6
C20orf86	140731	-0.744541	DGKI	9162	0.762564	BRCA2	675	0.709838	GLE1
C20orf94	128710	0.782362	DIP	23151	0.78392	BRIP1	83990	-0.724182	GLYCTK
C21orf13	150082	-0.721645	DIRC2	84925	-0.707635	BRSK1	84446	0.745752	GNPTG
C2orf50	130813	-0.841943	DKFZp761B1	91050	-0.709344	BSG	682	0.791775	GORASP2
C3orf10	55845	-0.764257	DLG4	1742	0.820229	BTBD10	84280	0.799653	GPD2
C3orf19	51244	-0.732546	DMXL2	23312	0.748155	BTBD7	55727	0.710688	GPR107
C3orf44	131831	-0.718459	DNAJA4	55466	0.727135	BTF3L4	91408	0.743082	GPR152
C3orf54	389119	0.851067	DNAJC3	5611	-0.704729	BTN2A2	10385	0.843853	GPR161
C4orf22	255119	-0.718398	DSCR4	10281	-0.709717	BTN2A3	54718	0.744376	GPR174
C5orf35	133383	-0.705096	DSG1	1828	0.727227	BTN3A1	11119	0.826379	GPR175
C5orf4	10826	-0.803938	DUOX2	50506	0.856239	BTN3A3	10384	0.924725	GPR39
C6orf120	387263	0.719889	DUSP10	11221	0.809908	BTRC	8945	-0.756906	GPX7
C6orf145	221749	0.770255	EBNA1BP2	10969	0.764668	BUB1	699	0.746886	GRM3
C6orf205	394263	0.749098	EHMT2	10919	0.717167	BXDC2	55299	0.757534	GSPT1
C6orf70	55780	0.78075	EIF2C1	26523	0.707811	BYSL	705	0.718848	HBXIP
C7orf36	57002	0.783566	EIF4EBP2	1979	-0.704293	BZW1	9689	0.704572	HCCS
C8A	731	0.815051	ENTPD2	954	0.711366	C10orf10	11067	0.792004	HDHD1A
C8ORFK36	340359	-0.837394	ENTPD5	957	0.734913	C10orf104	119504	0.751473	HOXA10
C9orf23	138716	0.794938	ENY2	56943	0.727011	C10orf107	219621	-0.742539	HOXA9
C9orf32	28989	-0.744454	EPHB1	2047	0.78176	C10orf114	399726	0.777332	HOXC4
C9orf7	11094	-0.869014	EPX	8288	0.763281	C10orf12	26148	0.754783	HSD11B1
C9orf89	84270	-0.784251	ERBB4	2066	-0.805273	C10orf40	283025	0.876104	HYAL4
C9orf93	203238	-0.79086	ERH	2079	0.811703	C10orf55	414236	0.774785	IDS
C9orf96	169436	-0.736765	ETF1	2107	0.72215	C10orf58	84293	0.752307	IFNA4
C9orf98	158067	-0.762772	EXOC8	149371	0.732949	C10orf62	414157	0.773342	IKZF2
CA3	761	0.741814	EXOSC7	23016	0.799684	C10orf78	119392	0.756516	IL2
CAB39	51719	-0.861897	FAM14B	122509	-0.733233	C10orf83	118812	0.711477	IL27
CABLES1	91768	-0.729866	FAM19A5	25817	0.7548	C10orf92	54777	-0.807548	INSM2
CABLES2	81928	0.715021	FAM30A	29064	0.720716	C11orf38	399967	0.760309	IRF9
CACNG6	59285	0.755193	FAM55A	120400	0.783046	C11orf41	25758	0.702784	IRS4
CADM1	23705	-0.846127	FAM58B	339521	0.716208	C11orf54	28970	0.700248	IRX4
CADPS	8618	0.757843	FAM8A1	51439	0.70736	C11orf71	54494	0.71465	ITM2C
CALML5	51806	0.711904	FARS2	10667	0.789215	C11orf73	51501	0.764101	KEL
CAMK2N2	94032	-0.819558	FBN3	84467	-0.81503	C12orf31	84298	0.827716	KIAA0157
CASKIN1	57524	-0.714024	FBXL10	84678	0.705965	C12orf48	55010	0.813664	KIAA0232

CASP10	843	-0.841875	FCHSD2	9873	-0.719348	C12orf64	283310	-0.722363	KIAA0888
CBFA2T2	9139	-0.864385	FER1L5	90342	0.751771	C13orf26	122046	-0.780914	KIAA0895
CCDC49	54883	-0.70012	FGL2	10875	0.767815	C13orf31	144811	-0.714182	KIAA1033
CCDC54	84692	-0.701646	FKBP8	23770	0.784042	C13orf33	84935	0.783093	KIAA1543
CCDC77	84318	-0.736683	FLJ21438	64926	-0.709325	C14orf118	55668	-0.780759	KLK15
CCDC81	60494	-0.754	FLJ39660	284992	0.78132	C14orf130	55148	0.818323	KLRG1
CCK	885	-0.706287	FLJ46321	389763	-0.720411	C14orf132	56967	0.726239	LARP7
CCKAR	886	-0.725102	FNBP1	23048	0.700018	C14orf133	63894	0.900639	LATS1
CCL17	6361	0.705104	FOXC1	2296	0.709525	C14orf166B	145497	-0.776985	LETMD1
CCND3	896	0.758892	FOXN1	8456	0.800524	C14orf28	122525	0.776916	LGICZ1
CCNT2	905	-0.764003	FRMPD4	9758	0.758666	C14orf32	93487	0.829838	LNX1
CCS	9973	0.816842	FSTSJ2	29960	-0.734022	C15orf23	90417	0.727254	LOC100129C
CCT6A	908	-0.722392	FUT5	2527	0.703888	C15orf29	79768	0.755283	LOC1001302
CCT8	10694	0.737229	FYN	2534	0.735092	C15orf32	145858	-0.746801	LOC1001307
CCT8L1	155100	0.713655	GABRG1	2565	0.733728	C15orf43	145645	0.755819	LOC1001318
CD2	914	0.732953	GABRG2	2566	0.732734	C15orf48	84419	0.757471	LOC1001322
CD300LG	146894	0.731556	GAL	51083	0.702824	C16orf3	750	0.75399	LOC1001327
CD53	963	-0.831159	GAL3ST1	9514	0.726862	C17orf42	79736	0.811754	LOC1001337
CD81	975	0.706175	GALNT17	442117	0.726876	C17orf87	388325	0.82273	LOC1001337
CDC14C	168448	0.7526	GCH1	2643	0.76558	C17orf89	284184	0.748216	LOC1001342
CDC42EP4	23580	0.730456	GDF6	392255	0.750272	C18orf18	147525	0.81505	LOC120318
CDH4	1002	-0.813288	GGT6	124975	-0.734564	C18orf22	79863	0.792972	LOC139431
CEBPZ	10153	0.724898	GHRHR	2692	0.782876	C19orf22	91300	-0.770657	LOC139542
CENTG1	116986	-0.716414	GLE1	2733	0.822203	C19orf44	84167	0.811278	LOC144983
CEP350	9857	-0.778393	GLYCK	132158	-0.773333	C19orf48	84798	0.854763	LOC150051
CGNL1	84952	-0.776949	GNAL	2774	0.72106	C19orf52	90580	0.767316	LOC150763
CHAC2	494143	-0.709158	GNAS	2778	0.760832	C19orf53	28974	-0.810435	LOC152485
CHCHD4	131474	0.730371	GORASP2	26003	0.7398	C19orf61	56006	-0.785398	LOC159184
CHD2	1106	0.79534	GPR107	57720	0.84515	C1orf102	127700	0.724503	LOC162993
CHD7	55636	-0.725562	GPR119	139760	0.741174	C1orf108	79647	0.715006	LOC285501
CHM	1121	-0.797876	GPR174	84636	0.864349	C1orf110	339512	0.733022	LOC388532
CHML	1122	-0.809719	GPR64	10149	0.8251	C1orf111	284680	0.747304	LOC389101
CHMP1A	5119	-0.718162	GPX7	2882	0.715623	C1orf114	57821	-0.775784	LOC391648
CHN1	1123	0.729579	GRIK5	2901	0.72783	C1orf128	57095	0.841888	LOC391742
CHP	11261	0.74017	GRM3	2913	-0.713002	C1orf129	80133	0.803446	LOC392193
CHRNA4	1137	0.703948	GSPT1	2935	0.730267	C1orf167	284498	0.792932	LOC401911
CIITA	4261	-0.735808	HAND2	9464	0.741049	C1orf182	128229	-0.718258	LOC441506
CIR	9541	-0.753957	HBCBP	100130083	0.703291	C1orf210	149466	-0.7713	LOC641977
CITED1	4435	-0.831899	HBXIP	10542	0.792734	C1orf35	79169	0.700617	LOC644010
CKS2	1164	0.744961	HCCS	3052	0.818479	C1orf49	84066	0.701251	LOC646300
CLDN17	26285	0.747016	HDDC3	374659	0.722642	C1orf62	254268	0.715248	LOC646696
CLDN9	9080	0.701351	HDHD1A	8226	0.765013	C1orf85	112770	-0.821978	LOC646810
CLEC12B	387837	0.728649	HES5	388585	0.711053	C1orf9	51430	-0.771281	LOC651042
CLEC4A	50856	0.746805	HISPPD1	23262	0.782682	C1QTNF1	114897	0.713571	LOC653125
CLIC3	9022	0.799461	HLA-DMB	3109	0.76768	C20orf106	200232	-0.705877	LOC728344

CLRN2	645104	-0.861773	HNT	50863	0.716436	C20orf121	79183	0.738254	LOC729960
CLTCL1	8218	0.701881	HOXA10	3206	0.723108	C20orf149	79144	0.704499	LOC730144
CNOT10	25904	-0.756622	HOXA7	3204	0.77215	C20orf166	128826	-0.836097	LONP1
CNOT4	4850	-0.777681	HOXA9	3205	0.839719	C20orf175	140876	0.757859	LRP1B
COBRA1	25920	0.848515	HOXC4	3221	0.75855	C20orf185	359710	0.807907	LRP2
COG4	25839	-0.740603	HSD11B1	3290	-0.717965	C20orf186	149954	0.848985	LRRC20
COL10A1	1300	0.766011	HSD17B13	345275	0.746505	C20orf191	149934	0.755235	LRRC31
COPB1	1315	-0.782364	HSF5	124535	-0.729861	C20orf199	441951	0.779837	LRRN1
COPS2	9318	0.736764	HSPB6	126393	-0.73596	C20orf23	55614	-0.796187	LY6D
COQ3	51805	0.796403	HYAL4	23553	0.803278	C20orf46	55321	0.711664	MALL
CORO1B	57175	0.71552	ICOSLG	23308	0.788067	C20orf71	128861	0.831661	MAP2K5
CORO6	84940	-0.798148	IDS	3423	0.835453	C20orf82	140862	0.820361	MAP4K1
CORT	1325	0.722272	IFNA16	3449	0.791324	C20orf94	128710	0.903696	MAST3
COX15	1355	-0.743228	IFNA4	3441	-0.727755	C21orf29	54084	0.834224	MBD2
COX6A2	1339	-0.738174	IL13RA1	3597	0.710468	C21orf7	56911	0.720971	MC4R
CPOX	1371	0.756272	IL1RAP	3556	0.716871	C2orf27	29798	0.716893	MED23
CPSF6	11052	0.714151	IL2	3558	0.796362	C2orf32	25927	0.737866	MFSD4
CRADD	8738	-0.708219	INE1	8552	0.711993	C2orf34	79823	0.794629	MGC35361
CRELD2	79174	-0.702163	INSM2	84684	0.840127	C2orf50	130813	-0.794544	MKLN1
CRISP2	7180	-0.793133	IQCJ	654502	0.731222	C2orf53	339779	0.716774	MMS19
CRISP3	10321	0.728144	IRF9	10379	0.824996	C2orf58	285154	0.756816	MPHOSPH1C
CRP	1401	0.714987	ITGAL	3683	0.725112	C3orf28	26355	0.771481	MS4A5
CRTAP	10491	-0.776576	ITGBL1	9358	0.726582	C3orf34	84984	0.727831	MTMR11
CRYBA4	1413	-0.78798	KAL1	3730	0.735597	C3orf49	132200	0.78114	MUM1L1
CRYL1	51084	0.765839	KCNC1	3746	0.738785	C3orf57	165679	0.732612	MYO3A
CSNK2A1	1457	-0.775544	KCND1	3750	-0.706042	C3orf59	151963	0.702338	NANS
CSNK2A2	1459	0.792572	KCNN2	3781	0.772928	C4orf17	84103	0.711118	NDUFA4L2
CTCF	140690	0.742599	KCNT1	57582	0.743661	C5orf21	83989	0.806423	NDUFB4
CTDSP2	10106	0.766356	KEL	3792	0.78784	C6orf141	135398	-0.8157	NF1
CTLA4	1493	-0.765355	KIAA0859	51603	0.733751	C6orf146	222826	0.770886	NLN
CTRC	11330	0.803848	KIAA0888	26049	0.740539	C6orf174	387104	0.718946	NLRP4
CTSS	1520	0.776223	KIAA1033	23325	0.826076	C6orf204	387119	0.73043	NOC4L
CXCL14	9547	-0.735922	KIF2A	3796	0.701391	C6orf205	394263	0.862806	NOVA2
CXorf20	139105	-0.701114	KLF9	687	0.820079	C6orf21	259215	-0.726012	NPHS1
CYB5A	1528	0.702127	KLHL33	123103	-0.792293	C6orf218	221718	-0.804106	NPM2
CYBB	1536	-0.890704	KLHL9	55958	0.719817	C6orf58	352999	0.706559	NPTXR
CYP17A1	1586	0.793161	KRT19	3880	0.774309	C6orf70	55780	0.701064	NR1D2
CYP1A2	1544	0.705539	LARP7	51574	-0.714582	C6orf97	80129	0.833939	NRD1
CYP3A4	1576	0.730165	LASP1	3927	0.702808	C7orf23	79161	0.833766	NRSN1
CYP7B1	9420	0.788259	LATS1	9113	0.726254	C7orf36	57002	0.788608	NUP160
CYSLTR2	57105	-0.80767	LCE3B	353143	0.773317	C8orf38	137682	0.843822	NXP3
DARS	1615	0.711988	LDB2	9079	0.776341	C8orf42	157695	0.725153	OLAH
DBT	1629	-0.81868	DLRAD3	143458	0.742089	C8orf6	203081	-0.812588	OLIG2
DCD	117159	0.745615	LETMD1	25875	0.751147	C9orf127	51754	0.719449	OPN1LW
DDX24	57062	0.717753	LGALS8	3964	-0.743356	C9orf135	138255	0.834438	OR2C1

DDX27	55661	0.701714	LGICZ1	353174	0.765041	C9orf140	89958	0.842667	OR2M1P
DDX58	23586	0.711062	LIMK2	3985	0.723281	C9orf23	138716	0.718251	OR4C11
DEDD	9191	0.758139	LIN7C	55327	0.707693	C9orf32	28989	-0.786647	OR52R1
DEFB119	245932	0.747704	LIPC	3990	-0.769854	C9orf52	158219	-0.74713	OSBP
DEK	7913	0.773869	LMBR1L	55716	0.73356	C9orf58	83543	0.727914	OSBPL1A
DENND2C	163259	-0.853117	LOC1001279	100127975	0.72625	C9orf68	55064	-0.709669	OTUD1
DGKD	8527	0.743744	LOC1001287	100128717	0.800322	C9orf89	84270	-0.712455	P2RX3
DHFR	1719	0.76744	LOC1001288	100128823	0.781559	C9orf95	54981	0.760692	P2RY4
DIP	23151	0.733171	LOC1001307	100130794	0.751332	CA1	759	0.767828	PACS2
DKFZp586I1420	222161	-0.781236	LOC1001318	100131814	0.77199	CA3	761	0.76138	PARD6B
DKFZp761B107	91050	-0.765034	LOC1001320	100132005	-0.739552	CA5A	763	0.759627	PATZ1
DKFZp779L1068	286144	-0.715361	LOC1001322	100132234	0.777687	CA6	765	0.784543	PAX7
DKK3	27122	0.715598	LOC1001327	100132728	0.75387	CAB39	51719	-0.811324	PBLD
DLAT	1737	0.714903	LOC1001335	100133500	-0.715114	CACNA1F	778	0.784149	PCDHA11
DMC1	11144	0.700978	LOC1001337	100133748	0.821318	CACNG6	59285	0.834834	PDE3B
DMXL2	23312	0.759427	LOC1001337	100133752	0.712661	CADM1	23705	-0.719413	PDP2
DNAJB13	374407	0.760558	LOC126235	126235	0.717945	CADPS	8618	0.894606	PEX14
DNAJC3	5611	-0.833738	LOC130865	130865	0.730047	CALM1	801	0.843619	PIK3CA
DOCK9	23348	0.766975	LOC139431	139431	0.792519	CAMK1	8536	0.755696	PITPNM3
DOPEY1	23033	0.720801	LOC139542	139542	0.846758	CAMK2N2	94032	-0.844468	PLAC1L
DOPEY2	9980	-0.798315	LOC144742	144742	0.700171	CAMKV	79012	0.771323	PLEKHF1
DPM2	8818	0.767021	LOC146325	146325	0.722367	CAND2	23066	0.702758	PLXDC2
DPP10	57628	-0.752528	LOC151534	151534	-0.701953	CAPRIN2	65981	-0.830579	PMS1
DSCR4	10281	-0.823672	LOC152485	152485	0.706068	CAPS	828	0.793082	POLR3A
DSCR8	84677	-0.742239	LOC256085	256085	0.70454	CARD6	84674	0.728545	POU3F3
DTD1	92675	-0.707038	LOC283951	283951	0.791908	CASP7	840	0.77161	POU5F2
DUSP15	128853	0.73523	LOC285501	285501	0.707441	CAV1	857	0.792818	PPFIA4
DUSP19	142679	-0.830509	LOC342994	342994	0.738015	CAV2	858	0.790812	PPP1R3F
DUSP2	1844	0.809579	LOC374920	374920	0.752206	CBL	867	-0.772832	PPP2R5D
DUSP5	1847	0.809864	LOC387820	387820	0.759596	CBLN1	869	-0.762531	PPWD1
DYNLT1	6993	-0.781201	LOC388524	388524	0.706829	CBLN2	147381	0.731752	PRAMEF4
EAPP	55837	-0.822691	LOC388532	388532	0.831346	CBX8	57332	0.715545	PRMT6
EEFSEC	60678	-0.749641	LOC389101	389101	-0.787587	CCDC110	256309	0.868028	PROC
EFEMP2	30008	-0.758886	LOC391271	391271	0.711624	CCDC111	201973	-0.731075	PROK1
EGF	1950	0.76686	LOC391648	391648	0.859945	CCDC137	339230	-0.753927	PSG7
EHBP1L1	254102	-0.711236	LOC391701	391701	0.721577	CCDC144A	9720	0.746682	PSKH2
EI24	9538	-0.701213	LOC392193	392193	0.820699	CCDC72	51372	0.768965	PTAFR
EIF2AK1	27102	0.770072	LOC392473	392473	0.735836	CCDC92	80212	-0.726381	PTPRE
EIF4EBP2	1979	-0.857985	LOC401497	401497	0.749878	CCL26	10344	0.807432	PUM2
EIF5	1983	0.782933	LOC401911	401911	0.71408	CCL27	10850	0.790724	RAB27B
EIF6	3692	0.739242	LOC402193	402193	0.709314	CCND3	896	0.700995	RAI16
ELA3B	23436	0.762991	LOC441455	441455	0.771936	CCNF	899	0.712914	RAX2
ELAVL2	1993	-0.810418	LOC441641	441641	0.793929	CCNH	902	0.72196	RB1
ELK3	2004	-0.74313	LOC441898	441898	0.809231	CCNJL	79616	0.741996	RFX2
ELP4	26610	0.755655	LOC641977	641977	-0.81466	CCNO	10309	0.713345	RFXANK

EML2	24139	0.721199	LOC643459	643459	0.700649	CCNYL1	151195	0.736617	RGNEF
EPB41L4A	64097	0.711377	LOC644063	644063	-0.737104	CCRN4L	25819	0.727352	RG57BP
EPHA7	2045	0.723607	LOC645573	645573	0.736111	CCS	9973	0.739653	RHCE
EPHB6	2051	0.816741	LOC646810	646810	0.777226	CCT4	10575	0.719608	RIMS1
EPX	8288	0.732722	LOC646960	646960	0.782188	CCT6A	908	-0.712261	RIN1
ERN1	2081	0.781441	LOC649238	649238	0.724058	CD2	914	0.853169	RIOK1
ERN2	10595	0.711613	LOC728019	728019	0.822207	CD300LG	146894	0.725396	RNF43
ESAM	90952	0.744254	LOC728111	728111	-0.741728	CD320	51293	0.740931	RPGRIP1L
ESCO2	157570	-0.855929	LOC728577	728577	-0.740602	CD38	952	0.748611	RPL31
ETV2	2116	-0.822876	LOC729080	729080	-0.725437	CD3E	916	0.82382	RTDR1
EVC	2121	0.708786	LOC729674	729674	0.797607	CD63	967	0.788272	RTTN
EVX1	2128	0.749229	LOC729764	729764	0.702477	CD7	924	0.78383	SAMD4B
EXOC3L	283849	-0.798404	LOC729960	729960	0.806962	CD81	975	0.775756	SDAD1
EXOSC7	23016	0.720706	LOC729970	729970	0.749568	CD86	942	0.776235	SEC61A1
FAAH	2166	0.810634	LOC730144	730144	-0.769803	CDC14C	168448	0.72664	SEMA3A
FAM10A4	145165	0.706059	LOC730834	730834	0.700497	CDC25C	995	0.839323	SEMA4F
FAM116A	201627	-0.725468	LOC730920	730920	0.720745	CDC7	8317	0.719043	SERHL
FAM120AOS	158293	-0.703544	LRAT	9227	0.771181	CDCA5	113130	0.812866	SETDB1
FAM120B	84498	0.794745	LRP1B	53353	0.857458	CDH4	1002	-0.813336	SGMS2
FAM122B	159090	0.757109	LTBP2	4053	0.761841	CDH7	1005	-0.71285	SHC4
FAM122C	159091	-0.814232	LUZP4	51213	0.715125	CDH8	1006	0.703982	SHMT1
FAM127A	8933	-0.752663	LY6D	8581	0.755361	CDKL3	51265	0.777544	SHQ1
FAM134C	162427	-0.782218	MAL2	114569	-0.71043	CDY2B	203611	0.777009	SKIL
FAM47C	442444	-0.760347	MALL	7851	0.702516	CEACAM19	56971	0.704659	SLC16A8
FAM59B	150946	0.785906	MALT1	10892	0.768159	CEBPZ	10153	0.823245	SLC19A2
FAM5C	339479	-0.736486	MANBAL	63905	-0.725835	CENPN	55839	0.725	SLC22A5
FAM98C	147965	-0.726912	MAP2K5	5607	0.837711	CENTA2	55803	0.747742	SLC25A6
FBN2	2201	-0.74439	MAP3K7	6885	0.770385	CENTB2	23527	0.769194	SLC26A1
FBN3	84467	-0.791065	MAP4K1	11184	0.704931	CEP250	11190	0.781067	SLC4A1AP
FBP2	8789	-0.710219	MASTL	84930	0.815552	CEP350	9857	-0.756097	SLCOSA1
FBXL13	222235	0.77861	MATR3	9782	-0.71849	CERKL	375298	0.787068	SMTNL1
FBXL19	54620	0.754895	MBD2	8932	0.742686	CES7	221223	0.881582	SNX1
FBXO40	51725	0.770889	MBTD1	54799	0.721531	CFP	5199	0.816791	SNX22
FCHSD2	9873	-0.779549	MC4R	4160	0.762517	CGRRF1	10668	0.770732	SNX7
FDX1L	112812	-0.861357	MED23	9439	0.756977	CH25H	9023	0.719335	SP100
FER1L5	90342	0.75231	MFSD1	64747	0.700254	CHAC2	494143	-0.752981	SPACA4
FEV	54738	0.726696	MFSD4	148808	0.791857	CHCHD4	131474	0.701205	SPECC1L
FEZF1	389549	-0.715207	MFSD5	84975	0.790817	CHI3L1	1116	0.707587	SPINT2
FFAR2	2867	-0.83734	MKLN1	4289	-0.702203	CHM	1121	-0.766535	SPRR2E
FGB	2244	0.721636	MMS19	64210	0.743226	CHN1	1123	0.765597	ST13
FGD6	55785	0.742867	MOC53	27304	0.784983	CHN2	1124	0.758179	ST6GAL2
FGF20	26281	0.755719	MOSPD1	56180	0.718173	CHP	11261	0.710349	ST6GALNAC;
FGF7	2252	-0.746074	MPHOSPH1	9585	0.732638	CHRNA3	1136	0.768812	STXBPSL
FHL2	2274	-0.726382	MPHOSPH1C	10199	0.743503	CHRNA5	1138	0.702751	SUV39H2
FHL5	9457	0.739715	MPI	4351	-0.770468	CHST10	9486	0.720442	THOP1

FKBP11	51303	-0.806252	MPST	4357	-0.732773	CHSY1	22856	0.806163	TIMM9
FKBP5	2289	-0.707894	MRPL34	64981	-0.706022	CIDEB	27141	0.722818	TMC3
FKSG2	59347	0.764184	MRPL37	51253	-0.718597	CIR	9541	-0.763668	TMEM135
FLCN	201163	0.726825	MSR1	4481	0.74451	CISD3	284106	0.736343	TMEM39A
FLI1	2313	-0.777662	MST4	51765	-0.730439	CITED1	4435	-0.80977	TNFSF9
FLJ14213	79899	-0.735794	MTMR11	10903	0.809932	CKS2	1164	0.749771	TNP2
FLJ21062	79846	-0.717254	MUM1L1	139221	0.795274	CLASP1	23332	0.74496	TPO
FLJ21075	80099	0.742524	MYF6	4618	0.764031	CLC	1178	0.728687	TREML2
FLJ21865	64772	-0.721519	MYO1A	4640	0.706095	CLCA3	9629	0.733013	TRIM23
FLJ22662	79887	-0.711145	MYO1F	4542	0.765371	CLCNKB	1188	0.769577	TRPC2
FLJ35776	649446	-0.715993	MYO3A	53904	0.721508	CLDN17	26285	0.726424	TSC2
FLJ40244	254272	0.716832	MYST2	11143	0.711899	CLDN3	1365	0.717051	TSPAN13
FLJ41327	401045	0.799267	NAIP	4671	0.777454	CLEC2B	9976	0.755691	TTC21A
FLJ43505	400823	-0.811386	NANS	54187	-0.729122	CLEC2L	154790	0.841243	TTY12
FLJ44817	400224	0.736027	NAT10	55226	0.701515	CLEC4D	338339	0.776043	TUBA3C
FLJ45032	643853	-0.764711	NCAPD2	9918	-0.710193	CLIC3	9022	0.791609	TYROBP
FLJ45910	388512	-0.817516	NCBP2	22916	0.77369	CLN3	1201	0.793603	UBXD1
FLJ45983	399717	0.805643	NCLN	56926	0.797172	CLN5	1203	0.767318	UCK1
FLJ46552	401230	-0.811112	NDUFA4L2	56901	0.792404	CLNS1A	1207	0.723871	UTP14C
FOXDL1	200350	-0.740233	NDUFB8	4714	0.702945	CLTC	1213	-0.700823	VAV1
FOXJ1	2302	-0.714203	NFATC1	4772	0.751673	CLTCL1	8218	0.713452	WDR46
FRAP1	2475	0.716821	NFATC2	4773	0.712418	CLUAP1	23059	0.729562	WIPF2
FRAT1	10023	0.784644	NFXL1	152518	0.748045	CMA1	1215	0.751537	WISP1
FREM3	166752	0.78583	NLN	57486	0.788293	CNOT4	4850	-0.709527	WNT6
FRMD4A	55691	0.708178	NLRP4	147945	0.80989	CNTNAP2	26047	0.883562	XRCC3
FRMPD4	9758	0.795876	NPEPL1	79716	0.760116	COBRA1	25920	0.887634	ZNF132
FSCN1	6624	0.733354	NPHS1	4868	0.795991	COG5	10466	0.789588	ZNF213
FSD1L	83856	-0.827652	NPTXR	23467	0.80065	COL10A1	1300	0.740863	ZNF22
FSHR	2492	0.718175	NR1D2	9975	0.707662	COL18A1	80781	0.758663	ZNF225
FTSJ2	29960	-0.71756	NR1H2	7376	0.734592	COL1A1	1277	0.705854	ZNF283
FYB	2533	-0.71793	NRD1	4898	0.748963	COMMD2	51122	-0.771093	ZNF431
FYN	2534	0.744168	NRL	4901	0.763334	COPB1	1315	-0.847179	ZNF577
G3BP2	9908	-0.763979	NXPH1	30010	-0.752977	COPS2	9318	0.771914	ZNF79
GABRA3	2556	0.814676	ODC1	4953	0.759433	COPS5	10987	0.716335	ZNF84

⚡ (N.1)

GeneID	Correlation
8086	-0.739871
18	-0.72581
10349	0.71152
22885	0.723533
84519	-0.735944
10120	0.766329
2515	0.846859
196883	0.703744
2334	-0.70061
55326	0.731951
10142	0.732496
208	0.719681
8854	0.708708
262	0.713034
9068	0.716769
81573	-0.734289
324	0.797113
378708	-0.701115
382	-0.749138
401036	-0.747523
440	0.761404
475	0.728667
477	0.792938
492	0.715859
549	0.760877
550	-0.784282
548645	-0.792214
598	0.719036
255877	-0.741307
53630	0.768734
613	0.711159
56898	0.75557
54796	-0.703394
10380	-0.756611
54836	-0.701441
284697	0.708734
119504	0.804327
26148	0.798452
51528	0.748919
55745	0.725178
63894	0.750741

J656Y (N.3)

GeneName	GeneID	Correlation
ABCB9	23457	-0.716533
ANK2	287	-0.74039
APBA2	321	-0.716375
APOC3	345	-0.70375
AQP3	360	-0.770925
ASPHD1	253982	-0.760199
BARHL2	343472	-0.723893
C18orf17	125488	-0.700023
C19orf36	113177	-0.736663
C20orf19	55857	-0.706204
C2orf29	55571	-0.716796
CACNA1B	774	-0.720383
CACNA2D1	781	-0.752884
CCDC91	55297	-0.708189
CD27	939	-0.747807
CDH9	1007	0.724643
CNOT2	4848	-0.739057
COMMD8	54951	-0.745308
COPS7B	64708	-0.739197
CYB5R2	51700	-0.700779
DHX29	54505	-0.716331
DMRTA1	63951	-0.719395
EIF2B3	8891	-0.748787
FAM69A	388650	-0.72558
FANCG	2189	-0.723218
FLJ43692	445328	-0.700154
FRMD1	79981	-0.796286
FSTL5	56884	-0.71184
GALP	85569	-0.744505
HGDF	3068	-0.706161
HGFAC	3083	-0.700325
IDH3G	3421	-0.83125
IFT172	26160	-0.715664
ITGB2	3689	-0.721553
KCNMB2	10242	0.708272
KIAA0430	9665	-0.734858
KIAA2026	158358	-0.746877
LCE2A	353139	-0.740964
LMX1A	4009	-0.729233
LOC152118	152118	-0.714209
LOC440142	440142	-0.706845

J661Y (N.3)

GeneName	GeneID	Correlation
ADAM17	6868	0.702045
ATP1A2	477	0.720901
C11orf24	53838	0.716292
C1orf75	55248	0.725805
C20orf186	149954	0.710565
CABP5	56344	0.719885
CLIC1	1192	0.719061
CPNE9	151835	0.717014
CRIM2	375616	0.710071
CXorf30	645090	0.727541
DBNDD2	55861	0.700266
DDX20	11218	0.701268
DFNB31	25861	0.737492
DOK5	55816	0.708315
EFNA5	1946	0.700599
EXOSC7	23016	0.735332
FCRL5	83416	0.714881
FLJ20035	55601	0.734367
FLJ23865	200317	0.722311
FLJ39779	400223	0.72722
GPR175	131601	0.718098
GRLF1	2909	0.723963
HIST1H2BO	8348	0.710509
HPS4	89781	0.734656
IL2	3558	0.726668
INSR	3643	0.733641
IRS4	8471	0.723269
KIAA1627	57721	0.709408
KIF5A	3798	0.712504
KLB	152831	0.732526
LOC1001295	100129975	0.725191
LOC255649	255649	0.721104
LOC388282	388282	0.709365
LOC388524	388524	0.712021
LOC441376	441376	0.719064
LOC645573	645573	0.703861
LRP1B	53353	0.724941
LSM14A	26065	0.73277
LSM6	11157	0.733833
LTK	4058	0.705578
MAPK15	225689	0.725991

J563Y (N.6)

GeneName	GeneID	Correlation
ABCA3	21	0.706701
ABCB5	340273	0.770631
ACOXL	55289	-0.720417
ADD3	120	0.708813
AP1B1	162	-0.710294
BIRC3	330	-0.733366
C11orf9	745	0.72801
C1orf41	51668	-0.745327
C20orf4	25980	0.715398
C21orf56	84221	0.715804
CA14	23632	0.774751
CBX7	23492	0.730864
CCDC126	90693	0.883923
CDH19	28513	0.775295
CDR2L	30850	0.817717
CKAP5	9793	-0.769733
CLSPN	63967	-0.710674
CNIH4	29097	0.842638
CRTAM	56253	-0.766936
CTTNBP2NL	55917	-0.717245
CWC15	51503	0.800915
DEFB1	1672	-0.790639
DFFA	1676	-0.716078
DHX37	57647	0.8128
DIRC1	116093	-0.702536
DIS3L	115752	-0.734351
DMRTC1	63947	-0.715137
DNAH7	56171	0.713572
DNAJC4	3338	0.710668
DTX3	196403	0.776441
DUSP12	11266	0.728727
EBF1	1879	-0.722199
ERCC6L	54821	0.849052
EVL	51466	0.711993
F13B	2165	0.768513
FABP4	2167	0.736461
FAM10A7	155019	-0.74514
FBXW2	26190	0.738275
FKHL18	2307	-0.703165
FLJ13137	400793	-0.763379
FLJ20184	54848	0.71516

80127	-0.741763	LOC652755	652755	-0.727981	MGC40069	348035	0.712238	FLJ31713	158263	0.720066
80072	-0.775426	LOC729866	729866	0.754295	MRPS2	51116	0.70114	FRMPD2	143162	-0.799305
750	0.706835	LOC730647	730647	-0.704189	MTMR4	9110	0.712771	FST	10468	0.768089
283870	0.700825	MPV17	4358	-0.766705	NCLN	56926	0.738042	GAB4	128954	0.725344
90580	0.781229	MRPL2	51069	-0.726059	NCOA7	135112	0.730309	GPR18	2841	0.711294
339448	0.736601	MYCBP	26292	-0.780145	NSAP11	100131275	0.72732	GPR25	2848	0.720512
112770	-0.707393	NOL1	4839	-0.768527	OR5C1	392391	0.712434	GRB7	2886	0.740573
79144	0.726802	NUP155	9631	-0.728716	PDIA6	10130	0.720578	GSN	2934	0.707701
128826	-0.794237	OR11H4	390442	-0.702159	PKLR	5313	0.711287	GSTA3	2940	-0.705016
441951	0.709524	OR5H2	79310	-0.71404	PMS1	5378	0.72303	GUCA1B	2979	0.726587
128710	0.722194	PAIP1	10605	-0.705103	PRDM6	93166	0.723589	HDGFL1	154150	-0.701521
151477	0.714167	PDE1C	5137	-0.70927	RFX2	5990	0.701298	HSPG2	3339	0.720751
51244	-0.755938	PEX11G	92960	-0.720714	RNASE6	6039	0.708772	IFITM3	10410	-0.769867
140947	0.739649	PIK3R2	5296	-0.717421	RPS19	6223	0.717041	IGSF9B	22997	0.793611
133383	-0.728046	PPP1R2	5504	-0.710532	SIGLEC12	89858	0.7131	INSIG1	3638	0.742897
731	0.710884	PRSS23	11098	-0.761403	SIRT6	51548	0.732051	IRS2	8660	-0.723217
57118	0.715635	PTGS1	5742	-0.717978	SLC25A32	81034	0.714419	IVD	3712	0.81091
815	0.732442	RPL23AP13	56969	-0.732529	SLC38A3	10991	0.707357	JAK3	3718	0.710809
816	0.764046	RPS7	6201	-0.793298	SPO11	23626	0.709153	KCNK15	60598	-0.743732
94032	-0.773872	SLC25A10	1468	-0.748521	TAP1	6890	0.729804	KIAA0947	23379	0.738716
843	-0.725601	SLC39A2	29986	-0.7632	TAS2R16	50833	0.725757	KIAA1394	57571	0.701712
9139	-0.739241	SLC47A1	55244	-0.765547	TH	7054	0.700608	KIAA1524	57650	0.826384
916	0.735046	SLC6A17	388662	-0.713024	TMEM39A	55254	0.737663	KRBA1	84626	0.704472
1016	0.723397	SLC6A7	6534	-0.71468	TNFSF9	8744	0.737344	KRT27	342574	-0.732235
6792	0.74238	TAS2R48	259294	-0.7349	ZBTB37	84614	0.70199	LAYN	143903	-0.816872
1026	0.815733	THSD1	55901	-0.736966	ZNF331	55422	0.705807	LDOC1	23641	0.723117
1044	-0.710134	TIA1	7072	-0.750174	ZNF805	390980	0.736918	LHFPL1	340596	-0.711202
9857	-0.729621	TMBIM4	51643	-0.70608	ADH1C	126	-0.700614	LLGL1	3996	0.828856
23177	-0.725932	TRIM15	89870	-0.756283	ARL11	115761	-0.776514	LOC1001282	100128203	-0.734375
1069	-0.716013	TSEN2	80746	-0.724386	ATP6V1C1	528	-0.701545	LOC1001303	100130315	0.792234
8837	0.715173	TTC12	54970	-0.73345	BAG4	9530	-0.751086	LOC139249	139249	0.786999
5199	0.717614	UEVLD	55293	-0.707448	C1orf85	112770	-0.714778	LOC152586	152586	-0.777852
26973	0.721121	WSCD2	9671	-0.722012	C8orf70	51101	-0.708472	LOC340096	340096	-0.794663
4261	-0.748191	ZNF253	56242	-0.789154	CHCHD1	118487	-0.778464	LOC344423	344423	-0.714249
9541	-0.712415				CYP4A22	284541	-0.727355	LOC391698	391698	-0.700542
4435	-0.806143				DOK7	285489	-0.779213	LOC440459	440459	-0.714117
1164	0.796216				EMILIN3	90187	-0.727682	LOC441630	441630	-0.715368
26285	0.791907				EXOC3	11336	-0.707179	LOC442172	442172	0.756062
9022	0.723053				EXOD1	112479	-0.728816	LOC541469	541469	0.773139
25920	0.770985				EXOSC5	56915	-0.705797	LOC643181	643181	-0.737458
25839	-0.762108				FAM43A	131583	-0.739986	LOC653269	653269	0.740376
1307	0.756879				FLJ31438	130162	-0.708738	LOC730007	730007	-0.775477
51805	0.701823				FRMD6	122786	-0.766959	LRG1	116844	-0.719567
1371	0.706359				GDF11	10220	-0.783543	LRRC29	26231	-0.710222
8738	-0.82395				HRH3	11255	-0.702757	LRRC50	123872	0.753286

1401	0.740164	IL18BP	10068	-0.708659	LTBP3	4054	0.769114
1453	0.749191	LCE1C	353133	-0.750398	LY75	4065	-0.754704
1500	0.70721	LGALS8	3964	-0.766101	LYRM2	57226	-0.759574
6387	0.720961	LOC284801	284801	-0.708312	LYZL2	119180	0.736245
645090	0.733178	LOC387646	387646	-0.71663	MGC26718	440482	-0.728596
139212	0.709613	LOC390874	390874	-0.721952	MITD1	129531	-0.722396
1586	0.717638	LOC441133	441133	-0.827969	MSL3L1	10943	-0.724817
1595	0.735282	LYPD2	137797	-0.726757	MSTN	2660	0.802629
54360	-0.79546	MITD1	129531	-0.702191	MUTED	63915	-0.746408
57062	0.720234	MYL1	4632	-0.781194	NECAP1	25977	0.728286
7913	0.738341	NELL1	4745	-0.781306	NEGR1	257194	-0.71115
9162	0.736528	NOLA1	54433	-0.717119	NXNL1	115861	0.703869
50846	-0.728542	NOV	4856	-0.73119	NXNL2	158046	-0.716382
1733	0.725544	NPM2	10361	-0.781699	OAZ1	4946	0.715682
23151	0.770534	P117	125988	-0.721499	OR2B6	26212	-0.77801
91050	-0.700927	PCDHGB4	8641	-0.720564	OR52J3	119679	-0.720443
1742	0.762263	PRRG4	79056	-0.71691	OR56B4	196335	0.708967
11144	0.768305	RCOR3	55758	-0.705153	OR5BF1	127066	-0.748662
23312	0.793762	SAGE1	55511	-0.700324	OR9Q2	219957	-0.702357
10281	-0.749799	SMR3A	26952	-0.87408	OXNAD1	92106	0.778917
50506	0.769018	SRD5A2L2	253017	-0.768209	PAM	5066	0.732371
1844	0.744838	STK39	27347	-0.733099	PDE10A	10846	0.763528
63904	0.71815	SYAP1	94056	-0.761863	PDIA5	10954	0.764221
1859	0.748325	SYT9	143425	-0.729232	PLA1A	51365	0.744239
55268	0.710657	TBX15	6913	-0.736035	POLR2C	5432	0.702239
1947	-0.701403	TDRD10	126668	-0.712802	POU6F1	5463	-0.707174
1979	-0.72028	ZNF76	7629	-0.751278	PRKCSH	5589	0.752424
1983	0.757292				PRSS22	64063	0.771311
64097	0.74681				PRTN3	5657	-0.840577
7957	0.723192				PVRL3	25945	0.708818
2081	0.757601				RABGAP1L	9910	-0.719194
23233	0.706643				RAET1G	353091	0.78318
149371	0.748627				RCN3	57333	0.779604
23016	0.769632				RGS8	85397	0.719339
2131	-0.717319				RHOG	391	0.702919
122509	-0.713315				RNF121	55298	0.737793
57464	-0.703863				ROCK2	9475	0.738085
10667	0.708934				SAP18	10284	-0.742636
84467	-0.731342				SCAPER	49855	-0.700779
23149	0.712965				SEL1L	6400	0.732476
112812	-0.735291				SERPIND1	3053	0.765933
54738	0.716015				SHANK3	85358	0.768253
26281	0.727576				SHOX2	6474	-0.766306
9457	0.781814				SHROOM4	57477	-0.733207
23770	0.718586				SIL1	64374	0.772909

80099	0.815608
64926	-0.70112
8456	0.780501
2475	0.790469
122786	-0.740612
10129	0.749895
2534	0.870642
51083	0.71284
2643	0.737292
392255	0.742845
2733	0.709474
132158	-0.709292
84572	-0.72238
26003	0.754811
2820	0.706566
57720	0.742223
390212	0.727216
23432	0.724433
84636	0.728942
131601	0.734927
2863	-0.709847
2882	0.75148
2913	-0.761704
2935	0.727146
10542	0.718386
3052	0.771765
8226	0.763373
3206	0.78032
3205	0.742474
3221	0.791894
3290	-0.733498
23553	0.750611
3423	0.803943
3441	-0.740258
22807	0.707467
3558	0.753766
246778	0.719691
84684	0.747248
10379	0.719776
8471	0.739627
50805	-0.767392
81618	-0.736771
3792	0.72136
23172	0.760215
9778	0.762714

SLAMF9	89886	0.710621
SLC22A18	5002	0.85853
SLC28A3	64078	-0.718396
SLC8A3	6547	-0.758087
SOST	50964	0.720568
SPATA13	221178	-0.712927
SPSB4	92369	0.722198
SPTLC1	10558	-0.747774
SUCNR1	56670	0.730149
SUMO4	387082	-0.710874
SYVN1	84447	0.872875
TATDN2	9797	-0.729273
TCEAL2	140597	-0.741709
TCEB3C	162699	0.73213
TLR1	7096	0.729173
TMEM182	130827	-0.753436
TMEM42	131616	0.707107
TMEPAI	56937	0.834346
TNPO1	3842	0.728791
TPM4	7171	-0.701864
TRAIP	10293	0.723986
TREX2	11219	0.811568
TRIM5	85363	0.780722
UBAC2	337867	-0.731552
UBE2A	7319	0.70114
UBE2D4	51619	0.711657
USP35	57558	0.735784
USP6NL	9712	0.763461
WDR86	349136	-0.705231
ZBTB8OS	339487	-0.704264
ZFAND6	54469	-0.739834
ZNF182	7569	-0.750788
ZNF215	7762	-0.755122
ZNF37A	7587	-0.75947
ZNF383	163087	-0.86664
ZNF542	147947	-0.707027
ZNF623	9831	0.747391
ZNF66	7617	0.709076
ZNF676	163223	-0.719044

26049	0.728527
23366	0.741552
23325	0.709841
57662	-0.712781
55554	-0.733969
10219	0.728322
51574	-0.719812
9113	0.702196
25875	0.735042
353174	0.729543
84708	0.779004
100129035	-0.703459
100130274	-0.731891
100130794	0.706509
100131814	0.791874
100132234	0.814145
100132728	0.723603
100133748	0.732391
100133752	0.708156
100134287	0.742045
120318	0.768603
139431	0.773019
139542	0.748652
144983	-0.702208
150051	-0.704044
150763	-0.705299
152485	0.751646
159184	0.751657
162993	0.74315
285501	0.752109
388532	0.713279
389101	-0.793159
391648	0.775135
391742	-0.728106
392193	0.70315
401911	0.760472
441506	-0.737663
641977	-0.807551
644010	-0.765238
646300	-0.732686
646696	0.703019
646810	0.731984
651042	0.723481
653125	-0.704755
728344	-0.717191

729960	0.817837
730144	-0.781788
9361	0.722781
53353	0.749819
4036	0.724152
55222	0.706465
79782	-0.701451
57633	-0.701608
8581	0.818155
7851	0.742302
5607	0.721053
11184	0.772704
23031	0.744852
8932	0.751578
4160	0.777502
9439	0.773471
148808	0.710107
222234	0.708088
4289	-0.814657
64210	0.709726
10199	0.777903
64232	0.751524
10903	0.798483
139221	0.740194
53904	0.803269
54187	-0.72014
56901	0.784974
4710	0.725149
4763	0.761716
57486	0.722961
147945	0.750848
79050	0.758635
4858	0.76215
4868	0.702789
10361	-0.753792
23467	0.719438
9975	0.746714
4898	0.766337
140767	-0.700369
23279	0.722593
11248	-0.762819
55301	0.703828
10215	0.719014
5956	0.75046
4993	0.795862

388762	-0.750886
219429	0.737085
119695	-0.727427
5007	0.705054
114876	0.719711
220213	0.717399
5024	0.702542
5030	0.742446
23241	-0.769298
84612	0.759668
23598	0.735345
5081	-0.737107
64081	-0.749125
56138	0.705112
5140	-0.715394
57546	0.71
5195	0.705728
5290	0.743249
83394	-0.704797
219990	0.741919
79156	-0.800073
84898	0.751088
5378	0.703245
11128	0.749885
5455	-0.816461
134187	0.735694
8497	0.776723
89801	0.75019
5528	0.716673
23398	0.70126
400735	0.713869
55170	0.788955
5624	-0.704892
84432	-0.748011
5676	0.718477
85481	0.731039
5724	0.723336
5791	0.701205
23369	0.779715
5874	0.700878
64760	-0.736661
84839	-0.710446
5925	0.711334
5990	0.738713
8625	0.737998

64283	-0.752335
401190	0.711162
6006	0.737009
22999	0.782831
9610	0.717301
83732	0.715531
54894	0.810431
23322	0.777311
6160	0.727334
27156	0.783596
25914	0.701785
55095	0.735025
55153	0.79088
29927	0.713072
10371	-0.758476
10505	-0.806619
94009	0.72201
9869	0.758585
166929	0.766592
399694	0.71553
6470	0.821803
55164	0.706757
6498	0.826754
23539	0.706323
10560	0.766136
6584	0.717363
293	0.713176
10861	0.723352
22950	0.710532
81796	0.709551
219537	-0.708981
6642	-0.725822
79856	0.73519
51375	-0.722266
6672	0.714057
171169	-0.72578
23384	0.760279
10653	0.762149
6704	-0.709254
6767	0.718301
84620	0.785579
10610	0.794321
9515	-0.704697
79723	0.745928
7064	0.725238

26520	0.715878
342125	0.71745
65084	0.780663
55254	0.711864
8744	0.704222
7142	0.736827
7173	-0.727695
79865	-0.728731
373	0.75216
7221	-0.70904
7249	-0.712602
27075	-0.775189
199223	-0.717486
83867	-0.700687
7278	0.701608
7305	0.755514
80700	-0.745982
83549	-0.772678
9724	0.728858
7409	0.768683
9277	0.774829
147179	-0.760815
8840	0.72217
7475	0.7547
7517	0.723299
7691	0.7072
7760	-0.740759
7570	-0.756197
7768	-0.776803
284349	0.703906
170959	-0.708149
84765	0.729354
7633	-0.729214
7637	0.702779

Supplementary Table 6: Pathway Enrichment in WebGestalt from correlations found in Supp. Table 5

J607Y (N.1)	Pathway	Pathway ID	Number of Genes	Number of Expected	n ratio of en	p value	adj p value	GeneIDs
Pathway Commons pathway	Metabolism	DB_ID:634	824	72	24	2.95	4.36E-16	2.71E-13 MOC53,SUCLG1,PSME2,UCK1,GDA,PSME1,SLC6A8,MAPK14,NUP160,RPL11,ASNS,NUP133,GOT2,ADCY2,PSMA7,ANAPC11,APIP,MARCKS,RAPGEF3,LSM1,NAT2,AKT1,UROS,CYP7B1,RPL31,CPOX,NDUFB1,SLC35D1,NAPRT1,TPK1,CNOT10,PFAS,CYP1A2,LSM6,GNG10,UQCRRH,SMG9,PSMD6,ACP5,DLAT,PSMB1,MOCOS,PSMB5,RAE1,SLCSA6,LSM4,NDUFS4,RP113,PSMD2,EXOSC7,NDUFB4,CNOT4,CYP17A1,DBT,NUP85,PSMB6,GUK1,RPL8,GNG4,PPOX,NUP98,UBC,PSMB3,
Pathway Commons pathway	Glypican pathway	DB_ID:1459	1338	86	39.59	2.17	2.08E-11	6.47E-09 RPS6KA3 PTH1R,MTOR,PSME2,EGF,CYSLTR2, DGKD,OR8D4,PSME1,PTGER2,CCL17,MAPK14,PDE3A,OR2C1,SOC51,ADCY2,OR10G7,PSMA7,OR51E2,ANAPC11,OR51Q1,RAPGEF3,SMPD2,NMS,AKT1,OR5A2,CXCR2,PTGER4,OR4D10,MC4R,ADM,OR1S2,PTGDR,OR6M1,CAB39,FGF7,OR6X1,ATP6VOC,PSMD6,TAAR1,CCKAR,OR52R1,OR4N5,OR8H2,PSMB1,PSMB5,KAT2B,SST,OR10H2,OR52N4,SCT,FSHR,OR2G3,CCK,PSMD2,OR8H1,PLCB2,OR5A1,PSMB6,RXFP3,IL17RD,OR51M1,LAMC1,FFAR2,OR1M1,PDE2A,OR4X1,PSMB3,OR10J5,UBC,QRFRP,IRS1,OR6K2,
Pathway Commons pathway	Signal Transduction	DB_ID:331	1231	80	36.42	2.2	6.31E-11	1.31E-08 KIDINS220,AGT,FRAT1,SHH,GPR39,FGF,OR2L2,RPS6KA3 TH1L,PSMB1,POLR2I,PSMB5,RDBP,RAE1,PSME2,PSME1,NUP160,NUP98,UBC,PSMB3,TPR,CCNT2,PSMD2,KPNA1,FYN,NUP133,PSMA7,
Pathway Commons pathway	HIV Infection	DB_ID:239	204	27	6.04	4.47	9.31E-11	1.45E-08 ANAPC11,AP1S1,PSMD6,TAFA9,NUP85,KPNB1,COBRA1,PSMB6 PARD6A,MTOR,NF1,PPM1D,ACTR3,EGF,CSNK2A1,CCL17,MAPK14,RPL11,RAB11FIP3,T,PA2G4,BRK1,SOC51,RELB,RNF111,MYBL1,CRP,ATF2,CTDSP2,CASP10,SNX1,CHP1,USO1,AKT1,VEGFA,SESN1,TRIM28,ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,ARF6,TAFA9,INPPL1,KAT2B,GADD45G,TCF3,TMPRSS2,MAPK8IP3,DUSP5,NFATC3,CCND3,MDFIC,HSPD1,MYOCD,PLCB2,KPNB1,IFNA4,MMP12,IL17RD,ARHGFEF28,CTLA4,LAMC1,PATZ1,PLAUR,GBP3,FHL2,TCF7L2,IRS1,IFNA21,KPNA1,CITED1,S100A7,GADD45A,RRM2B,AGT,FGB,
Pathway Commons pathway	LKB1 signaling events	DB_ID:1649	1308	82	38.7	2.12	2.05E-10	2.55E-08 NCOR1,CTRC,CABLES1,RPS6KA3,BSK1,MSTS,CAB39 PARD6A,MTOR,NF1,PPM1D,ACTR3,EGF,CSNK2A1,CCL17,MAPK14,RPL11,RAB11FIP3,T,PA2G4,BRK1,SOC51,RELB,RNF111,MYBL1,CRP,ATF2,CTDSP2,CASP10,SNX1,CHP1,USO1,AKT1,VEGFA,SESN1,TRIM28,ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,ARF6,TAFA9,INPPL1,KAT2B,GADD45G,TCF3,TMPRSS2,MAPK8IP3,DUSP5,NFATC3,CCND3,MDFIC,HSPD1,MYOCD,PLCB2,KPNB1,IFNA4,MMP12,IL17RD,ARHGFEF28,CTLA4,LAMC1,PATZ1,PLAUR,GBP3,FHL2,TCF7L2,IRS1,IFNA21,KPNA1,CITED1,S100A7,GADD45A,RRM2B,AGT,FGB,
Pathway Commons pathway	IFN-gamma pathway	DB_ID:1529	1296	79	38.34	2.06	1.58E-09	2.59E-08 NCOR1,CTRC,CABLES1,RPS6KA3 PARD6A,MTOR,NF1,PPM1D,ACTR3,EGF,CSNK2A1,CCL17,MAPK14,RPL11,RAB11FIP3,T,PA2G4,BRK1,SOC51,RELB,RNF111,MYBL1,CRP,ATF2,CTDSP2,CASP10,SNX1,CHP1,USO1,AKT1,VEGFA,SESN1,TRIM28,ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,ARF6,TAFA9,INPPL1,KAT2B,GADD45G,TCF3,TMPRSS2,MAPK8IP3,DUSP5,NFATC3,CCND3,MDFIC,HSPD1,MYOCD,PLCB2,KPNB1,IFNA4,MMP12,IL17RD,ARHGFEF28,CTLA4,LAMC1,PATZ1,PLAUR,GBP3,FHL2,TCF7L2,IRS1,IFNA21,KPNA1,CITED1,S100A7,GADD45A,RRM2B,AGT,FGB,
Pathway Commons pathway	Integrin family cell surface interactions	DB_ID:1499	1378	83	40.77	2.04	1.06E-09	2.59E-08 NCOR1,CTRC,CABLES1,RPS6KA3,MADCA1,PROC,CAM2,CD81 RPL11,RAB11FIP3,T,PA2G4,BRK1,SOC51,RELB,RNF111,MYBL1,CRP,ATF2,CTDSP2,CASP10,SNX1,CHP1,USO1,AKT1,VEGFA,SESN1,TRIM28,ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,ARF6,TAFA9,INPPL1,KAT2B,GADD45G,TCF3,TMPRSS2,MAPK8IP3,DUSP5,NFATC3,CCND3,MDFIC,HSPD1,MYOCD,PLCB2,KPNB1,IFNA4,MMP12,IL17RD,ARHGFEF28,CTLA4,LAMC1,PATZ1,PLAUR,GBP3,FHL2,TCF7L2,IRS1,IFNA21,KPNA1,CITED1,S100A7,GADD45A,RRM2B,AGT,FGB,
Pathway Commons pathway	Signaling events mediated by focal adhesion kinase	DB_ID:1574	1288	79	38.11	2.07	1.20E-09	2.59E-08 ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,PARD6A,MTOR,NF1,PPM1D,ACTR3,EGF,CSNK2A1,CCL17,MAPK14,RPL11,RAB11FIP3,T,PA2G4,BRK1,SOC51,RELB,RNF111,MYBL1,CRP,ATF2,CTDSP2,CASP10,SNX1,CHP1,USO1,AKT1,VEGFA,SESN1,TRIM28,ADM,SKIL,PTPRJ,FYN,SMARCC1,CEBPZ,TLF1,TSG101,FKBP5,RCAN2,ARF6,TAFA9,INPPL1,KAT2B,GADD45G,TCF3,TMPRSS2,MAPK8IP3,DUSP5,NFATC3,CCND3,MDFIC,HSPD1,MYOCD,PLCB2,KPNB1,IFNA4,MMP12,IL17RD,ARHGFEF28,CTLA4,LAMC1,PATZ1,PLAUR,GBP3,FHL2,TCF7L2,IRS1,IFNA21,KPNA1,CITED1,S100A7,GADD45A,RRM2B,AGT,FGB,
Pathway Commons pathway	Insulin Pathway	DB_ID:1466	1288	79	38.11	2.07	1.20E-09	2.59E-08 NCOR1,CTRC,CABLES1,RPS6KA3

Pathway Commons pathway	Internalization of ErbB1	DB_ID:1509	1288	79	38.11	2.07	1.20E-09	2.59E-08	RPL11, RAB11FIP3, T, PA2G4, BRK1, SOCS1, RELB, RNF111, MYBL1, CRP, ATF2, CTDSP2, CASP10, SNX1, CHP1, USO1, AKT1, VEGFA, SESN1, TRIM28, ADM, SKIL, PTPRJ, FYN, SMARCC1, CEP2, TLE1, TSG101, FKBP5, RCAN2, ARF6, TAF9, INPPL1, KAT2B, GADD45G, TCF3, TMPPRS2, MAPK8IP3, DUSP5, NFATC3, CCND3, MDM2, HSPD1, MYOCD, PLCB2, KPNB1, IFNA4, MMP12,
Pathway Commons pathway	Endothelins	DB_ID:1619	1307	52	17.12	3.04	1.89E-12	7.96E-10	MAP2K5, RUNX2, ADCY4, PP1R13B, GNAL, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, ADCY9, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, GNAS, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	Regulation of CDC42 activity	DB_ID:1456	770	36	10.09	3.57	7.40E-11	1.76E-09	RUNX2, CTDSPL, FKBP8, PAWR, APC, BCL2L1, CDKN1A, VAV1, RB1, PIK3CA, ARHGFE2, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, CRP, PTPRE, CAMK2A, IFNA4, LIMK2, PATZ1, IL2, ARHGDI, NFATC2, IFNA16, SMURF2, NFATC1, SKIL, FYN, CITED1, CAMK2B, HES5, TBL1X, SMURF1, MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	IL3-mediated signaling events	DB_ID:1564	1295	48	16.97	2.83	1.55E-10	1.76E-09	MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, IRF9, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	IFN-gamma pathway	DB_ID:1529	1296	49	16.98	2.89	5.01E-11	1.76E-09	MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	Signaling events mediated by Hepatocyte Growth Factor Receptor	DB_ID:1491	1293	48	16.94	2.83	1.47E-10	1.76E-09	MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	EGFR-dependent Endothelin signaling events	DB_ID:1603	1289	48	16.89	2.84	1.33E-10	1.76E-09	MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	GMCSF-mediated signaling events	DB_ID:1461	1292	48	16.93	2.84	1.43E-10	1.76E-09	MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	Arf6 trafficking events	DB_ID:1615	1288	48	16.87	2.84	1.29E-10	1.76E-09	MAP2K5, RUNX2, PPP1R13B, GNAL, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	Plasma membrane estrogen receptor signaling	DB_ID:1556	1301	50	17.04	2.93	1.77E-11	1.76E-09	CAMK2B, TBL1X, SMURF1, CSNK1D, GNAS MAP2K5, RUNX2, PPP1R13B, CTDSPL, FKBP8, PAWR, IL13RA1, APC, BCL2L1, CDKN1A, RPL5, RPL11, CFLAR, VAV1, RB1, C12orf5, PIK3CA, DUSP10, RNF111, PPM1A, CXCL12, KRT19, MAP3K7, SMAD6, CRP, PTPRE, CAMK2A, IFNA4, SHMT1, PATZ1, AKT2, IL2, MALT1, NFATC2, IFNA16, SMURF2, PDE3B, ODC1, NFATC1, PTPRC, SKIL, CITED1, FYN, MAP4K1, CAMK2B, TBL1X, SMURF1, CSNK1D
Pathway Commons pathway	IGF1 pathway	DB_ID:1482	1291	48	16.91	2.84	1.40E-10	1.76E-09	TBL1X, SMURF1, CSNK1D

J647E (N.1)

Pathway Commons pathway	Arf6 trafficking events	DB_ID:1615	1288	143	59.37	2.41	2.44E-22	6.76E-21	DDIT3 TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBRI, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,
Pathway Commons pathway	Internalization of ErbB1	DB_ID:1509	1288	143	59.37	2.41	2.44E-22	6.76E-21	DDIT3 TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBRI, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,
Pathway Commons pathway	IL3-mediated signaling events	DB_ID:1564	1295	144	59.69	2.41	1.49E-21	6.76E-21	DDIT3, CSF2RB SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBRI, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,
Pathway Commons pathway	S1P1 pathway	DB_ID:1594	1288	143	59.37	2.41	2.44E-22	6.76E-21	DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBRI, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,

Pathway Commons pathway	LKB1 signaling events	DB_ID:1649	1308	146	60.29	2.42	5.17E-23	6.76E-21	DDIT3, BRSK1, CAB39, MARK2 TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFB1, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,
Pathway Commons pathway	Syndecan-1-mediated signaling events	DB_ID:1454	1300	144	59.93	2.4	2.15E-22	6.76E-21	DDIT3, BSG TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFB1, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33,
Pathway Commons pathway	Insulin Pathway	DB_ID:1466	1288	143	59.37	2.41	2.44E-22	6.76E-21	DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COP55, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFB1, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33, CSF2RB
Pathway Commons pathway	IL5-mediated signaling events	DB_ID:1627	1292	144	59.56	2.42	1.20E-22	6.76E-21	DDIT3, CSF2RB

Pathway Commons pathway	Arf6 downstream pathway	DB_ID:1585	1288	143	59.37	2.41	2.44E-22	6.76E-21	SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COPS5, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBR1, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1,
Pathway Commons pathway	Integrin family cell surface interactions	DB_ID:1499	1378	150	63.52	2.36	1.50E-22	6.76E-21	TXN, NF1, CD3E, EGF, PPP1R3A, RET, TAP1, MAPK14, PA2G4, CCL26, T, SH2D1A, NFKB1, DLG1, PIK3CA, RNF111, PPM1, SNX, PTPR, TYRP1, TXLNG, YAP1, CAV1, HCK, ARF4, SKIL, PIAS3, CLTC, TNFRSF1A, FOSL1, GAB1, KAT2B, ITGA6, GADD45G, MAPK8IP3, TJP1, SIPA1, RB1, RPL23, BCL2, MYOCD, PLCB2, NFYB, ZNF385A, IL17RD, LAMC1, IL2RG, DOK1, CALM1, VLDLR, MALT1, PRDM1, OPRM1, CYFIP2, RASA1, TCF7L2, EXOC6, S100A7, INSR, AR, PPP1R13L, NOS2, EGLN1, MGAT3, WASF2, PRKAB1, PIDD, MTOR, PPM1D, SLC2A1, TP53, MAP2K1, PMS2, PPP2R2A, COL18A1, IL23A, PRKACA, ZFYVE9, RPL11, VAV1, RAB11FIP3, RRN3, MDM2, ACAP2, SOCS1, PRR5, SPI1, MAF, ATF2, SNAI2, CHP1, MAP3K3, AKT1, BGLAP, COL1A1, DVL3, CBL, IFNA5, FYN, HSPA4, COPS5, CEBPZ, XRCC6, TAF9, BMPR1B, SPHK1, RASSF1, TGFBR1, ARPC4, PPP1CC, PAK4, PRKCH, ATF1, POLR3D, CHN2, HUWE1, CCND3, DAPP1, ITGA1, STAT3, KPNB1, RIN1, DUSP1, MAP3K1, TNF, PDPK1, FCGR2B, HES1, FOXO4, SOS1, PLAUR, HSPA1B, CITED1, AGT, AKT3, NFYC, CTRC, ITGB4, GPX1, IL5, BTRC, ZBTB33, DDIT3, ADAM2, CSG2R8, ICAM2, ICAM3, ITGB4, LAMB3, CD81
Miltefosine (N.1)									
Pathway Commons pathway	Syndecan-1-mediated signaling events	DB_ID:1454	1300	37	11.42	3.24	4.96E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	S1P1 pathway	DB_ID:1594	1288	37	11.32	3.27	3.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	Internalization of ErbB1	DB_ID:1509	1288	37	11.32	3.27	3.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	IL3-mediated signaling events	DB_ID:1564	1295	37	11.38	3.25	4.46E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	Urokinase-type plasminogen activator (uPA) and uPAR-mediated	DB_ID:1519	1288	37	11.32	3.27	3.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	EGF receptor (ErbB1) signaling pathway	DB_ID:1550	1288	37	11.32	3.27	3.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	PDGF receptor signaling pathway	DB_ID:1497	1293	37	11.36	3.26	4.28E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	Class I PI3K signaling events	DB_ID:1553	1288	37	11.32	3.27	3.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	Glypican pathway	DB_ID:1459	1338	37	11.42	3.24	4.85E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D
Pathway Commons pathway	IL5-mediated signaling events	DB_ID:1627	1292	37	11.35	3.26	4.19E-10	4.27E-09	MAP2K5, TSC2, MTOR, NF1, CD3E, FKBP8, APC, BCL2L1, CDKN1A, CFLAR, VAV1, RB1, PIK3CA, CXCL12, CRP, PTPRE, CDX1, RIN1, CASP10, CAMK2A, SNX1, IFNA4, CAMSAP3, SHMT1, ARHGFE28, PATZ1, AKT2, IL2, PDE3B, SKIL, CITED1, FYN, MAP4K1, CAMK2B, CTNND1, ARF6, CSNK1D

J656Y (N.3)

Pathway Commons pathway	Deadenylation of mRNA	DB_ID:863	22	3	0.04	79.47	7.29E-06	0.0005	CNOT2, C2orf29, PAIP1
Pathway Commons pathway	Deadenylation-dependent mRNA decay	DB_ID:862	46	3	0.08	38.01	6.98E-05	0.0022	CNOT2, C2orf29, PAIP1
Pathway Commons pathway	Metabolism of RNA	DB_ID:865	282	5	0.48	10.33	0.0001	0.0022	CNOT2, NUP155, RPS7, C2orf29, PAIP1
Pathway Commons pathway	Transport of glucose and other sugars, bile salts and organic acids	DB_ID:973	95	3	0.16	18	0.0006	0.0077	SLC6A7, SLC39A2, SLC47A1
Pathway Commons pathway	Metabolism of mRNA	DB_ID:864	235	4	0.4	9.92	0.0007	0.0077	CNOT2, RPS7, C2orf29, PAIP1
Pathway Commons pathway	Transmembrane transport of small molecules	DB_ID:937	379	5	0.65	7.69	0.0005	0.0077	SLC6A7, AQP3, NUP155, SLC39A2, SLC47A1
Pathway Commons pathway	SLC-mediated transmembrane transport	DB_ID:943	248	4	0.43	9.4	0.0009	0.0085	SLC6A7, NUP155, SLC39A2, SLC47A1
Pathway Commons pathway	Metabolism	DB_ID:634	824	6	1.41	4.24	0.0029	0.0239	CNOT2, NUP155, RPS7, C2orf29, PAIP1, IDH3G

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Pathway Commons pathway	Metabolism	DB_ID:634	824	8	2.12	3.77	0.0013	0.0158	SLC25A32, EXOSC7, LSM6, PKLR, EXOSC5, RPS19, DDX20, TH
Pathway Commons pathway	mRNA Decay by 3' to 5' Exoribonuclease	DB_ID:860	11	2	0.03	70.64	0.0004	0.0158	EXOSC7, EXOSC5
Pathway Commons pathway	Destabilization of mRNA by KSRP	DB_ID:855	19	2	0.05	40.9	0.0011	0.0158	EXOSC7, EXOSC5
Pathway Commons pathway	Destabilization of mRNA by Butyrate Response Factor 1 (BRF1)	DB_ID:856	20	2	0.05	38.85	0.0012	0.0158	EXOSC7, EXOSC5
Pathway Commons pathway	Deadenylation-dependent mRNA decay	DB_ID:862	46	3	0.12	25.34	0.0002	0.0158	EXOSC7, LSM6, EXOSC5
Pathway Commons pathway	Metabolism of RNA	DB_ID:865	282	5	0.73	6.89	0.0008	0.0158	DDX20, EXOSC7, LSM6, EXOSC5, RPS19
Pathway Commons pathway	Destabilization of mRNA by Tristetraprolin (TTP)	DB_ID:857	17	2	0.04	45.71	0.0009	0.0158	EXOSC7, EXOSC5
Pathway Commons pathway	Insulin receptor recycling	DB_ID:247	28	2	0.07	27.75	0.0024	0.0255	INSR, ATP6V1C1
Pathway Commons pathway	Regulation of beta-cell development	DB_ID:35	109	3	0.28	10.69	0.0029	0.0274	ONECUT3, PKLR, RPS19
Pathway Commons pathway	Metabolism of mRNA	DB_ID:864	235	4	0.6	6.61	0.0033	0.028	EXOSC7, LSM6, EXOSC5, RPS19

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Pathway Commons pathway	Polo-like kinase signaling events in the cell cycle	DB_ID:1528	109	5	0.42	11.85	6.92E-05	0.0035	CLSPN, OAZ1, ROCK2, CKAP5, ERCC6L
Pathway Commons pathway	PLK1 signaling events	DB_ID:1483	104	5	0.4	12.42	5.53E-05	0.0035	CLSPN, OAZ1, ROCK2, CKAP5, ERCC6L
Pathway Commons pathway	Activation of Chaperones by IRE1alpha	DB_ID:411	45	3	0.17	17.22	0.0007	0.0222	SYVN1, TATDN2, PDIAS
Pathway Commons pathway	Caspase cascade in apoptosis	DB_ID:1501	52	3	0.2	14.9	0.0011	0.0222	GSN, BIRC3, DFFA
Pathway Commons pathway	Apoptotic execution phase	DB_ID:1040	48	3	0.19	16.14	0.0009	0.0222	GSN, BIRC3, DFFA
Pathway Commons pathway	GPCR downstream signaling	DB_ID:477	553	8	2.24	3.74	0.0015	0.0253	RHOG, OR52J3, OR56B4, PDE10A, OR9Q2, OR14C36, ROCK2, OR286
Pathway Commons pathway	Unfolded Protein Response	DB_ID:409	63	3	0.24	12.3	0.0019	0.0274	SYVN1, TATDN2, PDIAS
Pathway Commons pathway	Sema4D induced cell migration and growth-cone collapse	DB_ID:18	22	2	0.09	23.48	0.0033	0.037	RHOG, ROCK2
Pathway Commons pathway	G alpha (12/13) signalling events	DB_ID:482	21	2	0.08	24.59	0.003	0.037	RHOG, ROCK2
Pathway Commons pathway	Sema4D in semaphorin signaling	DB_ID:16	27	2	0.1	19.13	0.0049	0.0388	RHOG, ROCK2