

Supplementary Figure 1. **a.** Study design and cohort of patients. **b.** A dot plot of change in blue module expression versus % body weight change at 1 year follow-up in LSI and BarS patients (n=42 patients). **c.** A heatmap of Pearson correlation coefficients for clinical parameters of the baseline cohort (n=155) with expression of the different gene modules identified by WGCNA. **d.** Type-I interferon responsive gene expression measured in the baseline cohort (n=155) Data are shown as median and 1st and 3rd quartiles (box). **e.** Type-I interferon responsive gene expression in the LSI (n=10 patients responders, n=10 patients non-responders) and BS (n=21 patients) groups before and 1 year after intervention. Data are shown as mean \pm 95% CI in **e.** Statistical significance of differences between groups are analyzed by paired two-sided Wilcoxon test (*P < 0.05).

Supplementary Figure 2. Gating strategy for flow cytometry analysis of immune cells in human blood. Mononuclear cells were isolated from blood, stained with antibodies and analyzed as described in Material and Methods.

Supplementary Figure 3. A diet-induced mouse model of NASH. Male 57BL/6J mice were fed conventional diet (CD) or NASH-diet (ND) during 24 weeks. **a.** Body weight change (n=9 mice CD and n=20 mice ND). Data are expressed as mean \pm SEM. Statistical significance of differences was assessed by repeated measures ANOVA. **b.** Representative liver morphology and **c.** liver weight after 24 weeks of feeding with CD or ND (n=9 mice CD and n=20 mice ND). Data are expressed as mean \pm SEM. Statistical significance of differences was assessed by unpaired two-sided t-test. **d.** Representative liver histology, H&E staining, scale bar 100 μ m. 1 mouse per diet from the same lot of mice is shown from three independent lots of mice with similar histological findings. **e.** TG levels in the liver. (n=9 mice CD and n=12 mice ND). Data are expressed as mean \pm SEM. Statistical significance of differences was assessed by unpaired two-sided t-test. **f.** Alanine aminotransferase (ALT) activity in plasma after 24 weeks of feeding with CD or ND (n=9 mice CD and n=12 mice ND). Data are expressed as mean \pm SEM. Statistical significance of

differences was assessed by unpaired two-sided t-test. **g.** qPCR analysis of IFN α -responsive genes in mouse livers after 24 weeks of feeding with CD or ND. (n=10 mice CD and n=11 mice ND). Data are shown as mean \pm SEM. Statistical significance of differences between groups are analyzed by unpaired two-sided t-test..

Supplementary Figure 4. Hepatic immune cells in a diet-induced mouse model of NASH. **a.** Gating strategy of flow cytometry analysis in the liver. **b-j.** Proportions and representative flow cytometric plots of **b.** neutrophils (n=9 mice CD, n=20 mice ND), **c.** B cells (n=9 mice CD, n=20 mice ND), **d.** Clec4F⁺ Kupffer cells (n=8 mice CD, n=6 mice ND) **e.** CD11b⁺Ly6C^{hi} inflammatory monocytes (n=9 mice CD, n=20 mice ND), **f.** CD11b⁺CCR2^{hi} infiltrating macrophages, **g.** NK cells (n=9 mice CD, n=20 mice ND), **h.** NKT cells, **i.** CD4 T cells (n=9 mice CD, n=20 mice ND), **j.** and FOXP3⁺ regulatory T cells in the liver (n=9 mice CD, n=20 mice ND),. Data are shown as mean \pm SEM. Statistical significance of differences between groups are analyzed by unpaired two-sided t-test (*P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001).

Supplementary Figure 5. CD8 T lymphocytes are associated with active NASH in humans. **a.** Correlations between hepatic CD8 T cells and populations of circulation CD8 T cells (n=36 patients). **b.** Correlations between hepatic CD8 T cells and hepatic expression of PRF1, GZMA, GZMB, and GNLY (n=28 patients). **c.** Correlations between hepatic CD8 T cells and plasma markers of insulin resistance and systemic inflammation n=32 patients).

Table legends

Supplementary Table S1. Characteristics of 155 patients at baseline used for WGCNA analysis in the liver. Data are presented as mean \pm SD, min and max values and number of patients in each category are shown.

Table S2. Transcripts from hepatic gene modules from WGCNA of the 155 patients at baseline.

Supplementary Table S3. Characteristics of 21 NASH patients treated by RYGB used for gene expression analysis in the liver at baseline and one year follow-up. Data are presented as mean \pm SD. Statistical significance between baseline and one year follow-up is analyzed by paired two-sided Mann-Whitney test.

Supplementary Table S4. Characteristics of 20 NASH patients treated by LSI used for gene expression analysis in the liver at baseline and one year follow-up. 10 patients decreased NASH lobular inflammation and/or ballooning (responders), and 10 patient did not decrease these parameters (non-responders) at one year follow-up. Data are presented as mean \pm SD. Statistical significance between baseline and one year follow-up is analyzed by paired two-sided Mann-Whitney test.

Supplementary Table S5. Clinical and biochemical characteristics and information about treatment across subgroups of patients selected based on the diagnosis of NASH and/or T2D. Data are presented as mean \pm SD. Statistical significance between groups were analyzed by non-paired two-sided Mann-Whitney test; a, b, c, d indicate $P < 0.05$ as compared to No-NASH No-T2D (a), NASH No-T2D (b), or No-NASH T2D (c) subgroup. An indicated part of patients was treated with insulin in case of diagnosed T2D.

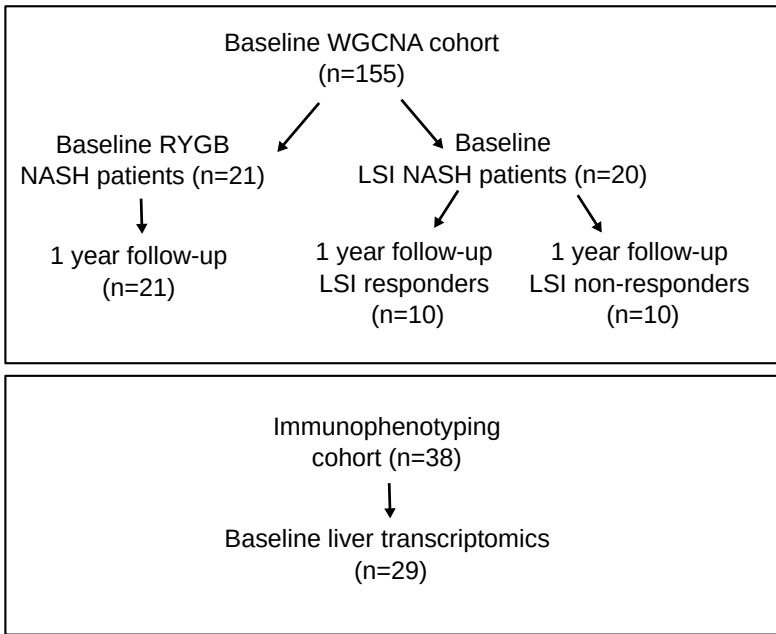
Supplementary Table S6. Real Time Quantitative PCR primer sequences used in this study.

Supplementary information

A diet-induced mouse model of NASH

We fed C57BL/6J male mice with a high fat diet supplemented with sucrose and cholesterol (herein referred as “NASH diet”, ND) for 24 weeks. ND feeding led to a significant increase of body weight compared to chow diet (CD)-fed mice (Supplementary Fig. 3a). Notably, it also resulted in significant enlargement of the liver (hepatomegaly) (Supplementary Fig. 3c,d). Histological analysis of the liver showed that ND-fed mice displayed the main features of NASH: micro- and macro-steatosis, immune infiltrates in parenchymal tissue (inflammatory foci), and amorphous hepatocytes lacking normal hexagonal structure, similar to ballooned hepatocytes (Supplementary Fig. 3d). In line with histological analysis, ND-fed mice had significantly increased liver triglyceride (TG) levels (Supplementary Fig. 3e). Moreover, histological features of stressed hepatocytes were accompanied by a significant increase of serum alanine aminotransferase (ALT), indicative of hepatocyte damage, in ND- compared to CD-fed mice (Supplementary Fig. 3f).

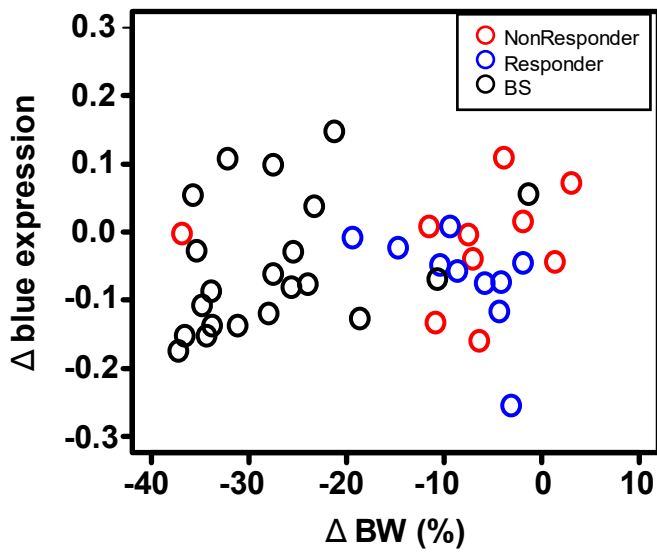
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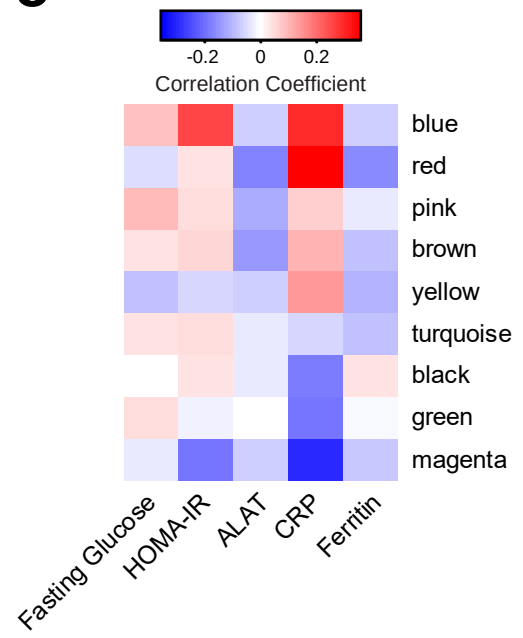
Liver transcriptomics

Liver transcriptomics
Blood immunophenotyping
Liver immunostaining

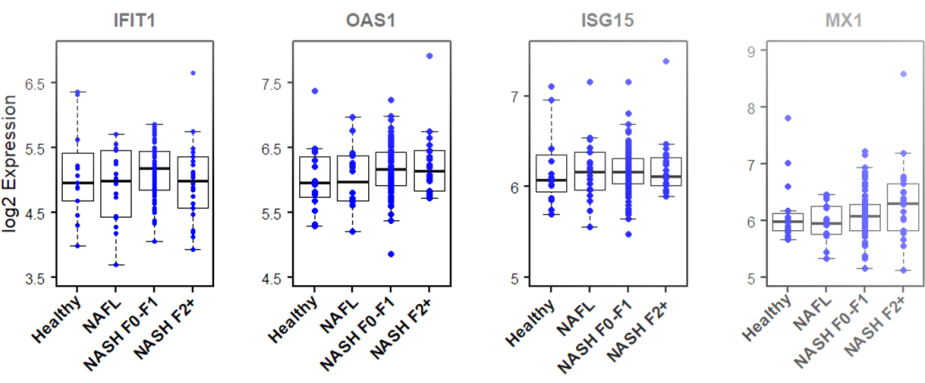
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c

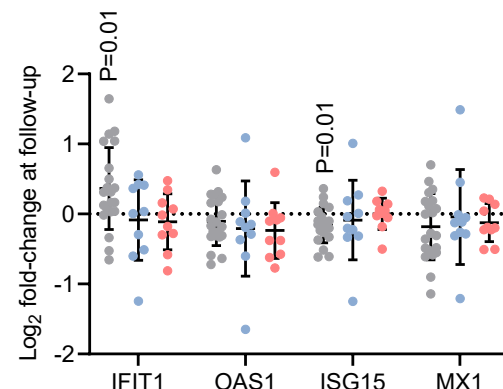


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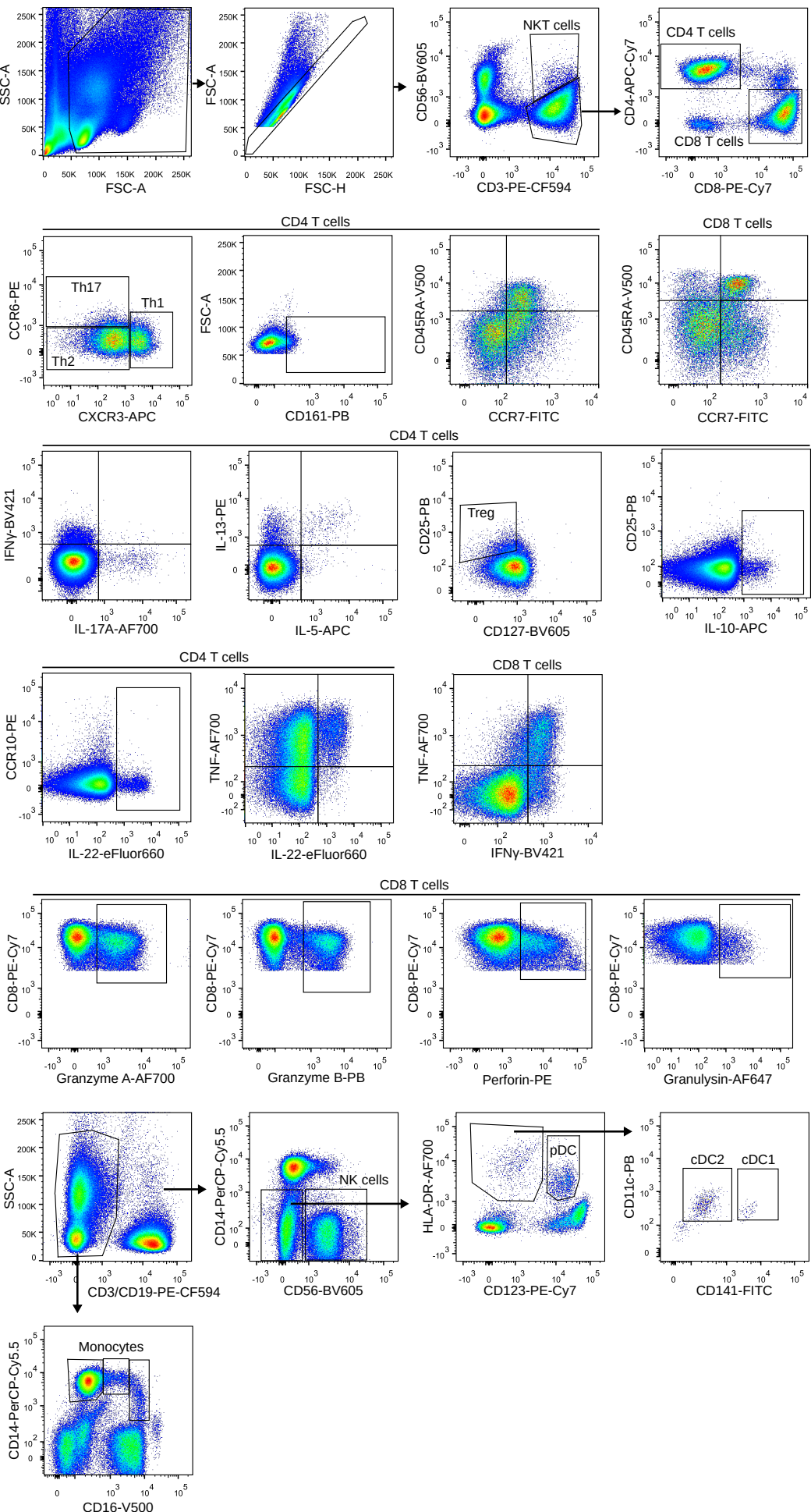
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Type-I Interferon Genes

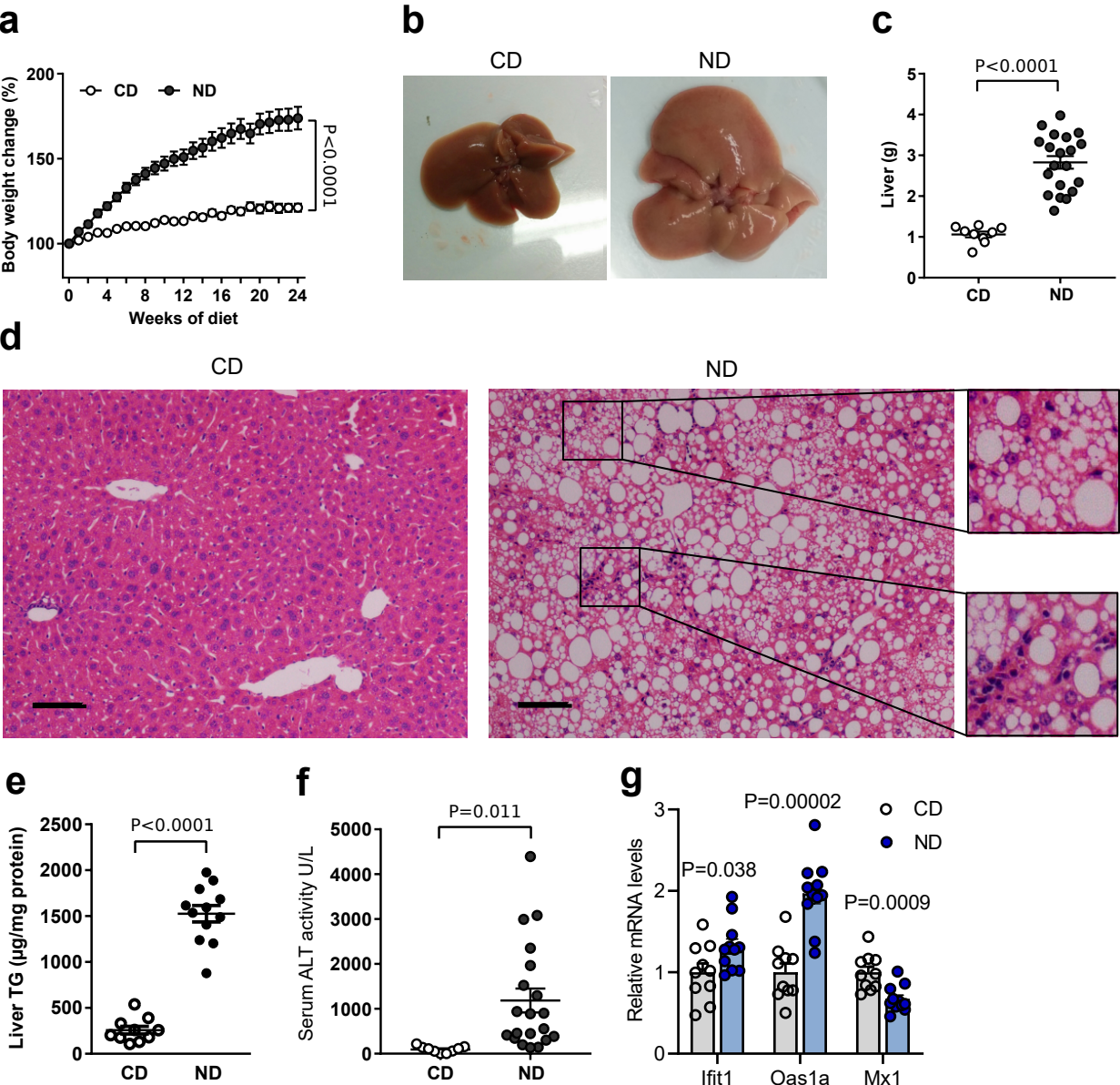


- RYGB
- LSI Responders
- LSI Non-responders

Supplementary Figure 2

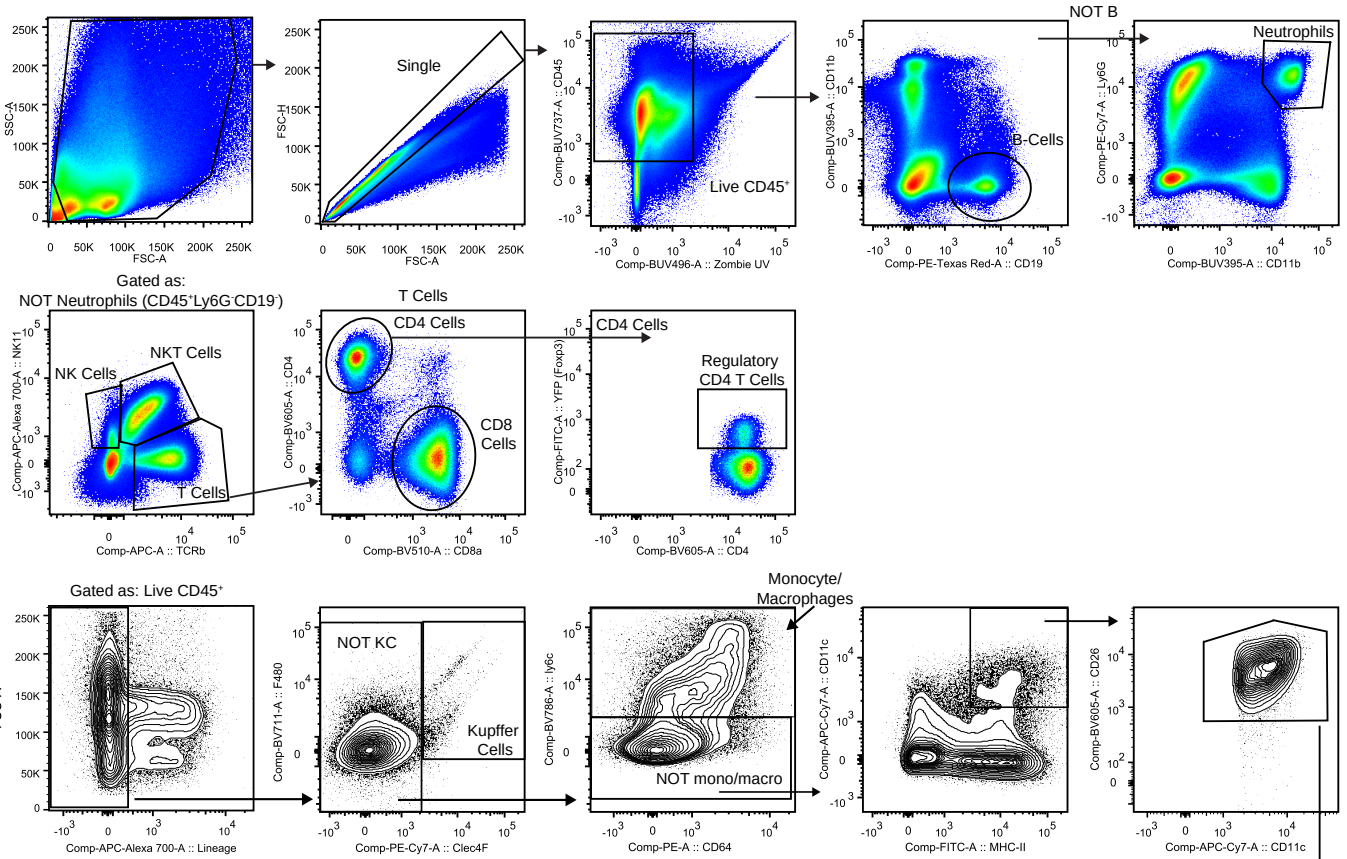


Supplementary Figure 3

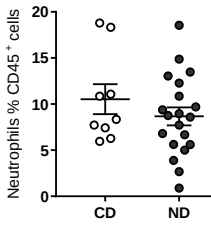


Supplementary Figure 4

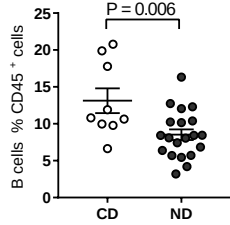
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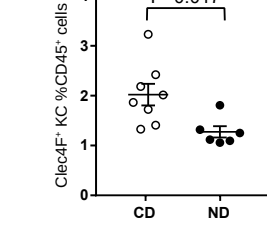
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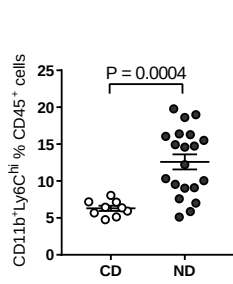
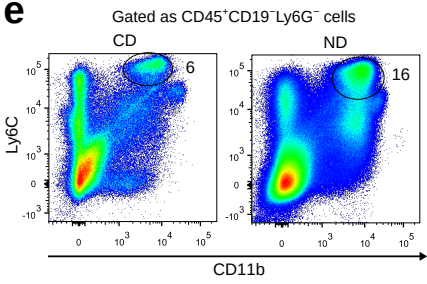
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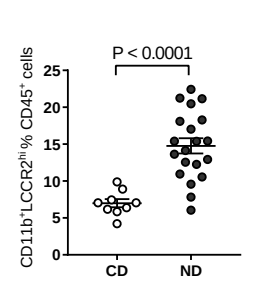
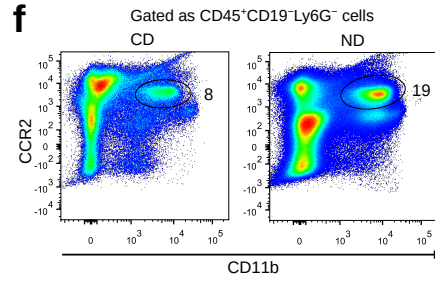
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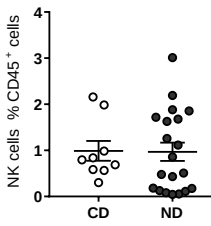
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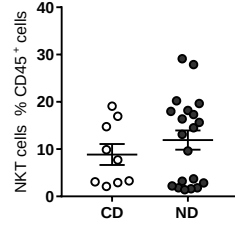
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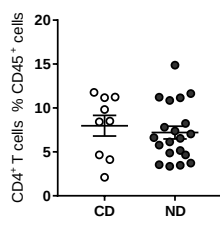
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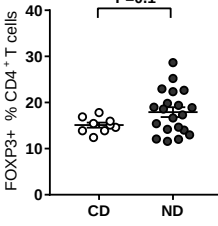
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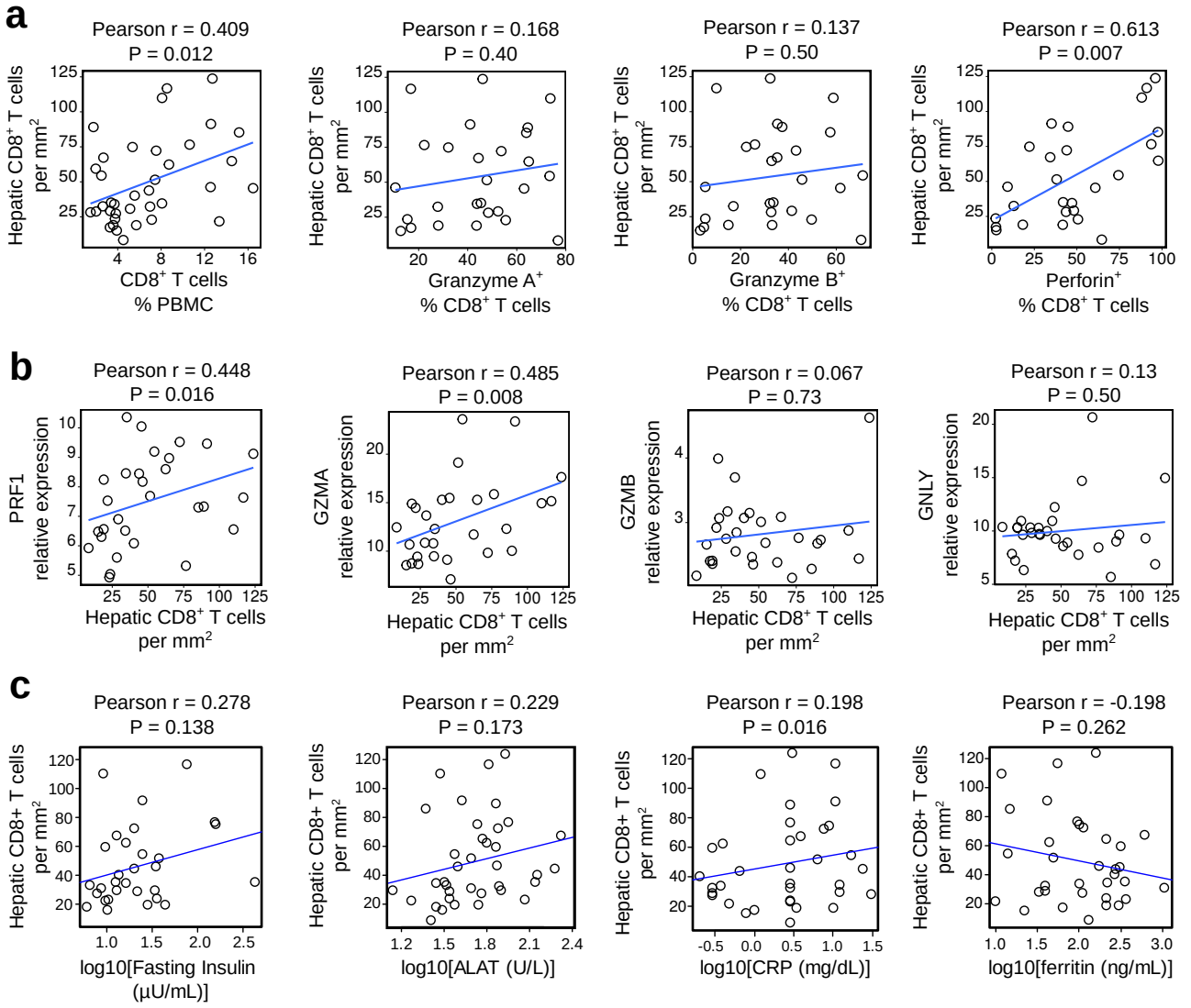
i



j



Supplementary Figure 5



Supplementary Table 1

		Min/Max	Distribution
N (men/women)	155 (55/100)		
NO NASH/NASH	49/106		
Age (years)	43.2 ± 12.9	18/74	
BMI (kg m ⁻²)	39.9 ± 5.6	27/69.1	
Lobular inflammation (score)	1.1 ± 0.8	0/3	0(34); 1(80); 2(31); 3(10)
Ballooning (score)	1.0 ± 0.7	0/2	0(40); 1(72); 2(43)
Steatosis (score)	1.5 ± 1.1	0/3	0(27); 1(54); 2(37); 3(37)
NAS score	3.7 ± 2.1	0/8	
Fasting glucose (mg dl ⁻¹)	86.1 ± 13.8	61/192	
2 hr postprandial glucose (mg dl ⁻¹)	146.2 ± 37.9	55/274	

Supplementary Table 2. Gene Module Membership for WGCNA

<u>GeneSymbols</u>	<u>Module</u>
DDX11L2	grey
OR4F5	grey
LINC01000	turquoise
LINC00266-1	turquoise
LOC100287934	turquoise
LINC01128	yellow
LOC284600	grey
LINC01342	grey
MIR200B	grey
SCNN1D	grey
CPTP	pink
ATAD3B	grey
ATAD3A	grey
SSU72	grey
PLCH2	grey
ACTRT2	grey
TPRG1L	red
DFFB	grey
AJAP1	grey
LINC00337	grey
HES3	grey
ESPN	grey
THAP3	grey
VAMP3	brown
PER3	green
LOC102724552	grey
LOC102724571	grey
H6PD	pink
SPSB1	yellow
SLC25A33	yellow
RBP7	blue
PGD	red
DISP3	grey
NPPA-AS1	grey
RNU5E-1	black
MFN2	red
TNFRSF1B	blue
SNORA59B	black
AADA3L3	grey
PRAMEF12	grey
PRAMEF2	grey
PRAMEF18	grey
PRAMEF17	grey
PRAMEF17	grey
TMEM51	grey
CTRC	grey
CELA2A	grey
CELA2B	grey

SLC25A34	green
C1orf64	grey
CLCNKA	grey
CLCNKB	grey
LOC102724970	grey
CROCCP2	grey
MST1P2	turquoise
FAM231A	grey
PADI1	grey
MIR3972	yellow
ARHGEF10L	turquoise
KLHDC7A	green
LOC101927895	black
LOC100131053	grey
HTR6	grey
PLA2G5	yellow
PLA2G2F	grey
UBXN10	grey
VWA5B1	grey
CDA	pink
NBPF3	grey
ALPL	pink
LDLRAD2	grey
CELA3B	grey
CELA3A	grey
LINC00339	turquoise
CDC42-IT1	yellow
C1QA	blue
C1QC	blue
C1QB	blue
MIR4684	grey
MIR3115	grey
MDS2	grey
MIR378F	grey
PNRC2	grey
LOC284632	grey
GRHL3	grey
RCAN3	blue
NCMAP	red
CLIC4	green
RHD	grey
MAN1C1	yellow
EXTL1	grey
FAM110D	grey
CNKSR1	grey
SH3BGRL3	pink
CD52	blue
DHDDS	red
HMG2	turquoise
RPS6KA1	grey
ARID1A	green

FAM76A	grey
SCARNA1	black
THEMIS2	blue
SESN2	green
MED18	grey
RCC1	red
RNU11	black
PTPRU	green
LOC400748	grey
SERINC2	pink
TINAGL1	blue
HCRTR1	grey
IQCC	grey
DCDC2B	grey
FAM167B	pink
TSSK3	green
TSSK3	grey
ZBTB8A	brown
KIAA1522	grey
LOC101929464	grey
C1orf94	grey
GJB4	grey
GJB3	grey
GJA4	grey
ZMYM1	turquoise
NCDN	grey
AGO3	turquoise
ADPRHL2	red
MIR4255	grey
DNALI1	grey
INPP5B	grey
MIR3659	grey
PPIE	brown
MFSD2A	red
RLF	yellow
TMCO2	grey
ZMPSTE24	brown
SMAP2	yellow
ZFP69B	grey
ZFP69	grey
ZNF684	yellow
MIR30E	green
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CTPS1	grey
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CYP4A22	grey
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CDKN2C	grey
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OSBPL9	yellow
PRPF38A	brown
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ZYG11A	grey
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CPT2	brown
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MROH7	green
LEXM	grey
MIR4422	grey
PRKAA2	grey
C8A	grey
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DAB1-AS1	grey
LINC01358	grey
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MIR3116-1	grey
USP1	brown
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ATG4C	brown
ALG6	turquoise
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ROR1	grey
CACHD1	grey
RAVER2	blue
LEPR	yellow
PDE4B	yellow
TCTEX1D1	green
GADD45A	grey

GNG12-AS1	turquoise
LRRRC7	grey
PIN1P1	grey
SRSF11	turquoise
HHLA3	pink
CTH	red
TYW3	brown
RABGGTB	brown
ST6GALNAC3	blue
NEXN	blue
DNAJB4	yellow
GIPC2	turquoise
MGC27382	magenta
IFI44L	blue
IFI44	blue
SPATA1	turquoise
CYR61	yellow
GBP6	grey
GBP1P1	grey
LRRRC8B	brown
LOC101927975	grey
CDC7	grey
BTBD8	brown
KIAA1107	brown
RPAP2	turquoise
SNORA66	black
CCDC18	turquoise
LOC100129046	green
SLC44A3	grey
LOC729970	yellow
TMEM56	yellow
FLJ31662	grey
LOC102723661	grey
PTBP2	turquoise
DPYD-AS1	grey
LOC729987	grey
PALMD	green
AGL	magenta
SLC35A3	brown
MIR553	turquoise
CDC14A	grey
GPR88	grey
VCAM1	blue
SLC30A7	brown
SLC30A7	grey
LOC102606465	turquoise
S1PR1	blue
DNAJA1P5	grey
RNPC3	turquoise
LOC100129138	grey
PRMT6	grey

FAM102B	blue
STXBP3	brown
SCARNA2	black
SYPL2	green
CYB561D1	grey
GNAI3	turquoise
MIR197	grey
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GSTM5	grey
CSF1	pink
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KCNC4	grey
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PROK1	grey
CD53	blue
CEPT1	turquoise
CHIAP2	grey
C1orf162	blue
LOC643355	grey
CTTNBP2NL	blue
CAPZA1	brown
SLC16A1-AS1	turquoise
LRIG2	turquoise
LOC102723919	green
OLFML3	blue
MAB21L3	grey
CD2	blue
PTGFRN	red
MIR942	grey
FAM46C	grey
LOC101929147	turquoise
HAO2	magenta
HAO2-IT1	magenta
HSD3BP4	grey
PHGDH	green
HIST2H2BA	pink
HIST2H2BF	grey
LINC00328	turquoise
SRGAP2	turquoise
SEC22B	yellow
NOTCH2NL	turquoise
NBPF14	turquoise
NBPF25P	turquoise
RNVU1-6	black
TXNIP	yellow
ITGA10	grey
PIAS3	pink
PDZK1	red
NBPF25P	grey

GPR89A	brown
NBPF12	yellow
PDIA3P1	green
CHD1L	brown
BCL9	green
GJA8	grey
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LOC100132057	grey
RNVU1-14	black
NBPF15	yellow
PPIAL4A	grey
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FCGR1CP	grey
LINC00869	turquoise
RNVU1-4	yellow
LOC388692	grey
FCGR1B	blue
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HIST2H3A	grey
HIST2H2AC	grey
CA14	green
C1orf54	blue
CIART	grey
ECM1	pink
ANXA9	brown
PRUNE	green
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FMO1	red
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SUCO	brown
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PRDX6	grey
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OVAAL	grey
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NPL	brown
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ARV1	brown
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OR2G2	grey
OR2G3	grey
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OR2M4	grey
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OR2T4	grey
OR2T2	grey
OR2T3	grey
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TMEM240	grey
C1orf233	grey
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TMEM52	grey
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HES5	grey
MIR551A	grey

ICMT	brown
MIR4252	grey
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ENO1	yellow
MIR34A	grey
LOC100506022	grey
PIK3CD-AS2	grey
DFFA	pink
CASZ1	grey
SRM	pink
PRAMEF11	grey
PRAMEF4	grey
PRAMEF10	grey
HNRNPCL2	grey
PRAMEF26	grey
LRRC38	grey
TMEM51-AS1	grey
LOC101927441	grey
AGMAT	magenta
UQCRHL	grey
FLJ37453	grey
FAM131C	grey
CROCCP3	grey
NBPF1	grey
CROCCP2	turquoise
ESPNP	grey
TAS1R2	grey
MIR1290	turquoise
IFFO2	green
AKR7L	red
AKR7A3	red
LOC100130193	yellow
PLA2G2A	blue
PLA2G2D	grey
PLA2G2C	grey
UBXN10-AS1	grey
CAMK2N1	grey
LOC101928043	grey
MIR4253	grey
LINC01355	turquoise
ZNF436	grey
TCEA3	green
ASAP3	grey
ID3	pink
TCEB3-AS1	magenta
FUCA1	red
IL22RA1	pink
RCAN3AS	grey
LOC100506985	green
RUNX3	grey

RSRP1	turquoise
RHCE	grey
LOC646471	green
AUNIP	grey
PAQR7	green
TRIM63	grey
UBXN11	grey
LOC101928324	turquoise
NR0B2	grey
FAM46B	grey
SLC9A1	grey
FCN3	blue
IFI6	blue
EYA3	turquoise
LOC101928460	grey
MATN1	grey
LAPTM5	blue
MIR4420	grey
SDC3	blue
SNORD103A	black
SNORD103A	black
SNORD103C	black
NKAIN1	grey
FABP3	blue
FNDC5	grey
MIR552	grey
ZMYM6NB	blue
SFPQ	turquoise
CLSPN	grey
COL8A2	grey
CSF3R	blue
LINC01137	grey
MEAF6	yellow
FHL3	pink
SNORA55	black
NT5C1A	grey
BMP8B	grey
MYCL	grey
PPT1	blue
NFYC-AS1	turquoise
CITED4	grey
ZMYND12	green
SVBP	grey
C1orf210	grey
LOC101929592	grey
LOC101929609	grey
TMEM53	pink
RNU5F-1	black
RNU5D-1	grey
BEST4	grey
TCTEX1D4	grey

EIF2B3	brown
TESK2	brown
RPS15AP10	turquoise
LINC01398	grey
KNCN	grey
CYP4Z2P	grey
CYP4A11	magenta
PDZK1IP1	grey
STIL	grey
LINC01389	grey
FOXD2-AS1	green
TRABD2B	grey
SPATA6	yellow
AGBL4-IT1	grey
LINC01562	grey
ECHDC2	green
SLC1A7	grey
SLC25A3P1	grey
NDC1	brown
YIPF1	red
FAM151A	grey
PARS2	pink
TTC22	green
DHCR24	red
PLPP3	yellow
C1orf168	turquoise
DAB1	grey
DAB1	grey
OMA1	brown
TACSTD2	grey
JUN	yellow
MIR4711	grey
NFIA-AS1	grey
TM2D1	turquoise
MIR3116-2	grey
KANK4	green
DOCK7	brown
ITGB3BP	grey
LINC01359	turquoise
MIR3671	turquoise
MIR101-1	grey
PKP4	grey
SLC35D1	turquoise
GNG12	grey
DIRAS3	red
WLS	red
LRRC40	brown
ANKRD13C	brown
SLC44A5	grey
PIGK	brown
ADGRL4	blue

TTLL7	turquoise
TTLL7-IT1	grey
GNG5	grey
CTBS	brown
SSX2IP	grey
LPAR3	grey
SYDE2	brown
C1orf52	turquoise
DDAH1	grey
ODF2L	yellow
GBP3	grey
GBP1	yellow
GBP2	green
GBP2	turquoise
GBP7	green
GBP4	blue
GBP5	blue
GEMIN8P4	grey
LOC149351	green
TGFBR3	yellow
GLMN	turquoise
FAM69A	brown
CCDC18-AS1	turquoise
BCAR3	grey
MIG7	grey
GCLM	yellow
ARHGAP29	turquoise
F3	grey
CNN3	red
LOC101928118	yellow
DPYD	turquoise
FRRS1	magenta
SASS6	turquoise
LRRC39	turquoise
RTCA-AS1	green
EXTL2	turquoise
DPH5	turquoise
LOC101928370	grey
LOC101928436	grey
VAV3	blue
NBPF4	grey
WDR47	turquoise
TAF13	grey
PSRC1	grey
SORT1	grey
PSMA5	yellow
GNAT2	grey
GSTM3	grey
EPS8L3	grey
ALX3	grey
KCNC4-AS1	grey

SLC16A4	grey
LOC440602	grey
KCNA10	grey
DRAM2	brown
DENND2D	grey
PGCP1	grey
TMIGD3	blue
LINC01160	grey
KCND3	green
KCND3-IT1	turquoise
MIR4256	grey
LINC01356	grey
SLC16A1	grey
LOC100996251	grey
PHTF1	turquoise
PTPN22	blue
AP4B1	brown
HIPK1-AS1	grey
DENND2C	turquoise
AMPD1	grey
NRAS	brown
TSPAN2	grey
ATP1A1-AS1	turquoise
LOC101929023	grey
LOC100506459	grey
VTCN1	grey
GDAP2	brown
TBX15	grey
WARS2	brown
LINC00622	turquoise
ZNF697	grey
ADAM30	grey
FCGR1B	grey
ANKRD20A12P	grey
RNU1-13P	grey
RNVU1-4	yellow
RNVU1-4	yellow
PFN1P2	yellow
LOC653513	yellow
PDE4DIP	magenta
NUDT4P1	magenta
LOC101928979	green
NUDT17	grey
CD160	blue
NBPF11	yellow
LOC728989	magenta
PRKAB2	magenta
FMO5	magenta
GJA5	grey
NBPF11	yellow
LINC01138	turquoise

RNU1-13P	grey
PPIAL4A	grey
NBPF26	yellow
NBPF19	yellow
RNVU1-15	black
RNVU1-15	black
FCGR1B	grey
PDE4DIP	magenta
HIST2H2BF	grey
HIST2H3D	grey
HIST2H3A	grey
HIST2H2BC	turquoise
HIST2H2BE	pink
HIST2H2AB	green
SV2A	grey
SF3B4	brown
MTMR11	grey
ANP32E	grey
ADAMTSL4-AS1	grey
HORMAD1	brown
CTSS	blue
CTSK	turquoise
FAM63A	green
CDC42SE1	brown
SEMA6C	grey
TMOD4	grey
VPS72	grey
SELENBP1	green
CELF3	grey
LINGO4	grey
RORC	green
C2CD4D	grey
THEM4	turquoise
S100A10	grey
S100A11	grey
HRNR	grey
LCE3D	grey
LCE1C	grey
SPRR2A	grey
SPRR2C	grey
SPRR2F	grey
PGLYRP3	grey
S100A12	yellow
S100A8	yellow
S100A7	grey
S100A14	grey
C1orf189	grey
KCNN3	grey
PMVK	brown
THBS3	turquoise
GBAP1	grey

PKLR	green
RUSC1-AS1	grey
RIT1	brown
SNORA80E	black
SCARNA4	black
UBQLN4	pink
MEX3A	grey
SMG5	grey
GLMP	pink
MIR9-1	grey
MEF2D	blue
CRABP2	grey
SH2D2A	grey
MIR765	grey
FCRL5	grey
FCRL3	grey
FCRL2	grey
CD5L	blue
LOC646268	grey
CD1B	grey
OR10K2	grey
OR6Y1	grey
OR6P1	grey
OR6K2	grey
OR6N1	grey
OR6N2	grey
OR10J3	grey
OR10J5	yellow
CRP	red
IGSF9	pink
PIGM	brown
KCNJ10	blue
LOC729867	grey
DCAF8	grey
SLAMF6	blue
CD84	blue
CD48	blue
ITLN1	grey
TSTD1	grey
ADAMTS4	yellow
NR1I3	green
CFAP126	grey
FCGR3B	grey
LOC102724329	grey
OLFML2B	grey
SH2D1B	blue
RGS5	brown
MIR921	grey
TADA1	green
ILDR2	grey
LINC01363	grey

CREG1	blue
ADCY10	red
ANKRD36BP1	grey
LOC100505918	magenta
LOC101928565	magenta
XCL2	grey
DPT	blue
NME7	turquoise
SLC19A2	yellow
SELP	grey
SELL	blue
SELE	grey
LOC101928628	grey
METT18	grey
MIR1295A	grey
VAMP4	brown
TNFSF18	grey
TNFSF4	yellow
LOC100506023	yellow
LOC101928673	yellow
SNORD75	yellow
LOC105371622	grey
TNR	grey
SCARNA3	black
SEC16B	turquoise
SEC16B	grey
SEC16B	turquoise
SEC16B	turquoise
SEC16B	turquoise
LOC730102	turquoise
LINC00083	grey
ANGPTL1	blue
LOC730179	grey
LHX4-AS1	green
ZNF648	grey
LINC01344	grey
GLUL	yellow
RNASEL	brown
NMNAT2	grey
NCF2	blue
FAM129A	blue
IVNS1ABP	yellow
PDC	grey
B3GALT2	grey
KCNT2	magenta
F13B	magenta
ASPM	grey
ZBTB41	brown
MIR181A1HG	yellow
MIR181B1	grey
LINC00862	turquoise

CACNA1S	grey
LAD1	grey
TNNI1	grey
PHLDA3	grey
CSRP1	green
LMOD1	grey
LOC102723465	grey
UBE2T	grey
ADIPOR1	pink
CHI3L1	grey
FMOD	pink
ETNK2	green
REN	grey
GOLT1A	pink
PLEKHA6	green
PLEKHA6	grey
PIK3C2B	green
LRRN2	grey
NUAK2	grey
LEMD1	grey
MIR135B	grey
SLC45A3	green
SLC41A1	blue
C1orf186	grey
FCMR	blue
PIGR	blue
FCAMR	grey
MIR29C	grey
MIR29B2	turquoise
MIR29B2	turquoise
CD34	blue
LOC100509303	grey
LAMB3	red
LOC101930114	yellow
IRF6	yellow
RD3	grey
LPGAT1	green
INTS7	brown
RPL21P28	grey
LOC101929541	grey
TMEM206	grey
BATF3	grey
ANGEL2	turquoise
PROX1-AS1	turquoise
GPATCH2	turquoise
TGFB2-AS1	grey
SLC30A10	turquoise
SNORA36B	black
HLX-AS1	grey
C1orf140	grey
DUSP10	yellow

TAF1A	turquoise
TLR5	blue
SUSD4	red
TP53BP2	yellow
LOC101927143	grey
NVL	turquoise
MIR4742	turquoise
LOC102723817	grey
LBR	yellow
ENAH	grey
TMEM63A	pink
LEFTY1	grey
LEFTY2	grey
ITPKB-IT1	grey
CDC42BPA	turquoise
WNT9A	grey
HIST3H3	grey
ACTA1	grey
PGBD5	red
TTC13	red
C1orf131	green
DISC2	grey
SIPA1L2	grey
SLC35F3	grey
LOC101927765	grey
TARBP1	turquoise
IRF2BP2	yellow
SNORA14B	black
GNG4	grey
LYST	brown
NID1	grey
ERO1B	brown
ZP4	grey
LINC01139	grey
CHRM3-AS1	grey
GREM2	brown
LOC100506929	grey
FH	red
CHML	turquoise
MAP1LC3C	grey
LINC01347	turquoise
AKT3	brown
ADSS	brown
LOC255654	grey
TFB2M	brown
KIF28P	grey
MIR3916	grey
GCSAML-AS1	grey
OR2T12	grey
OR2T34	grey
OR2T10	grey

OR2T35	grey
PRR26	yellow
IDI2-AS1	grey
AKR1C1	grey
LOC101928051	grey
AKR1C3	red
UCN3	grey
FAM208B	brown
PFKFB3	yellow
LOC399716	grey
LOC101928150	grey
LOC102723721	grey
LINC00707	grey
ATP5C1	grey
CELF2	blue
ECHDC3	grey
SEC61A2	brown
CAMK1D	grey
MIR4480	grey
MCM10	grey
MIR1265	grey
HSPA14	brown
VIM	blue
TMEM236	grey
MRC1	blue
MIR511	brown
MRC1	blue
MIR511	brown
CACNB2	magenta
ARL5B	yellow
PLXDC2	blue
MIR4675	grey
MSRB2	brown
OTUD1	yellow
PRINS	grey
MIR603	grey
THNSL1	brown
LINC00836	grey
APBB1IP	grey
LINC00202-2	grey
PDSS1	grey
MASTL	turquoise
BAMBI	grey
LOC102724333	grey
MAP3K8	yellow
MAP3K8	yellow
LOC646034	grey
LOC102031319	grey
LOC101929475	brown
CREM	yellow
LINC00993	grey

ZNF37A	brown
LOC100129055	grey
HSD17B7P2	yellow
LOC101929445	grey
RET	red
CSGALNACT2	brown
ZNF487	grey
ZNF32-AS3	grey
LINC00840	grey
C10orf142	grey
RASSF4	grey
ZNF22	yellow
ALOX5	blue
FAM21C	grey
FAM35BP	green
LOC101927699	grey
FAM35DP	green
ANTXRL	grey
BMS1P6	turquoise
AGAP6	turquoise
GLUD1P7	grey
MAPK8	turquoise
SLC18A3	grey
C10orf53	grey
TIMM23B	turquoise
NCOA4	brown
AGAP6	turquoise
SGMS1-AS1	turquoise
PRKG1	grey
UBE2D1	blue
BICC1	blue
LOC102724768	red
PHYHIPL	grey
CDK1	grey
LINC00845	grey
ARID5B	blue
NRBF2	red
JMJD1C-AS1	grey
REEP3	brown
ANXA2P3	grey
LINC01515	green
LINC01515	turquoise
LRRTM3	magenta
SIRT1	yellow
TET1	grey
MIR1254-1	turquoise
STOX1	grey
DDX21	yellow
KIF1BP	brown
SRGN	blue
HKDC1	grey

LOC101929021	grey
C10orf35	grey
H2AFY2	grey
SLC29A3	pink
CDH23	grey
ANAPC16	brown
DDIT4	yellow
MCU	blue
OIT3	blue
NUDT13	magenta
DNAJC9-AS1	grey
CHCHD1	grey
VCL	blue
KAT6B	turquoise
MIR606	turquoise
KCNMA1-AS2	grey
DLG5-AS1	grey
PPIF	grey
EIF5AL1	grey
SFTPA1	grey
BEND3P3	grey
LOC642361	grey
MBL1P	green
TMEM254	brown
PLAC9	grey
LINC00857	green
GRID1-AS1	grey
LDB3	grey
ADIRF	grey
AGAP11	turquoise
FAM25A	grey
LINC00863	grey
NUTM2D	grey
MIR4678	grey
MINPP1	grey
CFL1P1	grey
STAMBPL1	red
ACTA2-AS1	grey
FAS	brown
IFIT2	blue
IFIT3	blue
IFIT1B	grey
IFIT1	green
IFIT5	blue
SLC16A12-AS1	grey
KIF20B	turquoise
RPP30	brown
HHEX	green
EXOC6	brown
CYP26A1	grey
LGI1	magenta

HELLS	grey
CYP2C19	magenta
ACSM6	grey
ENTPD1	blue
CCNJ	blue
ZNF518A	turquoise
FRAT1	grey
HOGA1	magenta
C10orf62	grey
PI4K2A	red
GOLGA7B	grey
LOXL4	grey
LOC101927300	grey
ENTPD7	red
CUTC	grey
DNMBP-AS1	green
SCD	grey
SEMA4G	green
MIR608	turquoise
SFXN3	grey
KCNIP2-AS1	grey
NOLC1	red
MIR146B	grey
SFXN2	grey
WBP1L	red
AS3MT	red
INA	grey
TAF5	brown
SFR1	brown
LOC101927472	grey
PDCD4	red
ADRA2A	grey
TECTB	grey
ACSL5	red
MIR4295	turquoise
TDRD1	grey
ATRNL1	brown
PNLIPRP1	grey
KCNK18	grey
FAM45A	grey
MIR4681	yellow
INPP5F	turquoise
LINC01561	grey
WDR11	turquoise
LINC01153	grey
ATE1-AS1	grey
MIR3941	grey
HTRA1	red
DMBT1	grey
ACADSB	magenta
HMX3	grey

ZRANB1	yellow
BCCIP	turquoise
LOC101927435	grey
PPP2R2D	turquoise
C10orf91	grey
VENTX	grey
PRAP1	grey
SCART1	grey
TUBB8	grey
LOC100288619	grey
IDI2	grey
IDI1	red
LOC101927880	grey
KLF6	yellow
LINC00702	grey
AKR1C6P	magenta
AKR1C2	turquoise
AKR1C8P	green
CALML3-AS1	grey
ASB13	grey
IL2RA	grey
LOC101928080	grey
PRKCQ	grey
SFMBT2	blue
ITIH5	grey
USP6NL	yellow
USP6NL	turquoise
UPF2	turquoise
NUDT5	red
MIR4481	grey
PHYH	red
CDNF	turquoise
DCLRE1C	grey
ACBD7	grey
FAM171A1	green
C1QL3	grey
RSU1	blue
VIM-AS1	grey
ST8SIA6	grey
NSUN6	turquoise
NEBL	red
CASC10	green
SKIDA1	grey
PIP4K2A	blue
ARHGAP21	brown
PRTFDC1	grey
LINC00202-1	grey
ANKRD26	turquoise
YME1L1	brown
LRRC37A6P	grey
MPP7	grey

SVIL	turquoise
MIR604	green
MIR938	green
KIAA1462	grey
GOLGA2P6	grey
GOLGA2P6	grey
LOC100505502	grey
NRP1	brown
NAMPT	yellow
MTRNR2L7	grey
ZNF248	green
ZNF25	yellow
ZNF37BP	grey
LINC01518	grey
ZNF239	grey
CXCL12	blue
C10orf10	yellow
C10orf25	yellow
ZFAND4	turquoise
AGAP6	turquoise
PARGP1	turquoise
BMS1P5	turquoise
LOC101929287	green
FAM25A	grey
LINC00842	grey
HNRNPA1P33	grey
AGAP9	turquoise
LINC00864	green
ANTXRPLP1	grey
RBP3	grey
GDF2	pink
PTPN20	grey
AGAP6	turquoise
AGAP12P	turquoise
ARHGAP22-IT1	grey
MIR4294	grey
VSTM4	grey
FAM170B	grey
C10orf71-AS1	grey
PARG	brown
AGAP6	turquoise
AGAP7P	turquoise
ASAH2	red
CSTF2T	brown
MBL2	green
ZWINT	grey
SLC16A9	blue
RHOBTB1	red
TMEM26	blue
JMJD1C	turquoise
MIR1296	turquoise

CTNNA3	magenta
DNAJC12	magenta
HERC4	turquoise
ATOH7	grey
DNA2	turquoise
LINC00849	green
PPA1	brown
NPFFR1	grey
NODAL	grey
PRF1	blue
UNC5B-AS1	grey
C10orf105	grey
ASCC1	yellow
P4HA1	grey
MSS51	turquoise
MYOZ1	grey
SYNPO2L	grey
AGAP5	turquoise
BMS1P4	turquoise
KCNMA1	grey
LOC729815	grey
NUTM2B-AS1	turquoise
SFTPD	grey
LOC101929574	grey
HOST2	grey
LRIT1	grey
GRID1	red
GLUD1	turquoise
LINC00864	green
KLLN	pink
RNLS	brown
ANKRD22	grey
ACTA2	blue
FAS-AS1	grey
LIPA	blue
SLC16A12	grey
PANK1	magenta
MIR107	grey
FLJ37201	grey
ANKRD1	grey
NUDT9P1	grey
HECTD2-AS1	grey
PPP1R3C	grey
FGFBP3	grey
CPEB3	magenta
IDE	brown
MYOF	blue
FRA10AC1	turquoise
NOC3L	brown
PDLIM1	pink
SORBS1	yellow

ALDH18A1	grey
TCTN3	brown
MIR3157	turquoise
BLNK	blue
TLL2	grey
PIK3AP1	brown
AVPI1	yellow
SFRP5	grey
PYROXD2	grey
GOT1	yellow
LINC01475	grey
SLC25A28	grey
DNMBP	green
CPN1	blue
CWF19L1	brown
SNORA12	black
BLOC1S2	brown
SEC31B	turquoise
TLX1NB	grey
ARL3	turquoise
CYP17A1	grey
NT5C2	brown
CALHM3	grey
SH3PXD2A	turquoise
MIR4482	grey
ITPRIP	yellow
CFAP58-AS1	grey
SMNDC1	brown
BBIP1	brown
RPL13AP6	grey
GPAM	red
NRAP	grey
AFAP1L2	grey
GFRA1	green
VAX1	grey
MIR3663	grey
PRDX3	brown
RGS10	blue
WDR11-AS1	grey
FGFR2	grey
C10orf120	grey
C10orf88	turquoise
IKZF5	yellow
CPXM2	grey
CHST15	grey
OAT	red
FLJ37035	grey
FLJ37035	grey
CLRN3	green
MKI67	grey
MIR4297	grey

LINC01164	grey
LOC102725247	grey
LOC105378568	grey
LINC01165	grey
LINC01166	grey
FUOM	turquoise
MIR3944	grey
SPRN	grey
SYCE1	grey
SPRNP1	grey
ODF3	grey
ATHL1	grey
ATHL1	grey
IFITM2	pink
IFITM1	blue
LOC100128703	grey
LOC692247	grey
DRD4	grey
PNPLA2	grey
CD151	blue
LOC101927503	grey
KRTAP5-5	grey
FAM99A	grey
LOC100505570	grey
KRTAP5-6	grey
TNNI2	grey
LINC01150	grey
TNNT3	grey
IGF2-AS	grey
MIR4686	green
SLC22A18	pink
LOC100506082	grey
OR52K2	grey
OR52I1	grey
OR51E1	grey
OR51T1	grey
OR51B6	grey
OR52B6	grey
TRIM78P	grey
TRIM22	brown
OR52N2	grey
OR56A3	grey
OR52W1	grey
SMPD1	pink
OR2AG1	grey
OR10A2	grey
OR10A4	grey
ZNF215	grey
NLRP14	magenta
RBMXL2	grey
SYT9	brown

OLFML1	blue
LOC101927936	grey
SNORA3B	black
TMEM9B-AS1	turquoise
KRT8P41	grey
IPO7	brown
SNORA23	black
WEE1	yellow
ADM	yellow
MRVI1-AS1	grey
LOC101928053	grey
ZBED5-AS1	grey
LOC105376554	grey
MICAL2	grey
TEAD1	yellow
ARNTL	grey
FAR1	blue
PDE3B	magenta
PDE3B	yellow
CALCB	grey
LOC102724957	grey
OR7E14P	pink
NUCB2	grey
MYOD1	grey
MRGPRX4	grey
SAA1	grey
LDHA	yellow
LDHC	grey
LDHAL6A	grey
NAV2	yellow
NAV2-IT1	green
MIR4486	grey
HTATIP2	red
LOC102723370	grey
ANO5	red
GAS2	magenta
FIBIN	grey
BBOX1	magenta
BDNF-AS	turquoise
METT15	brown
ARL14EP	turquoise
WT1-AS	grey
DEPDC7	yellow
TCP11L1	yellow
LINC00294	yellow
FBXO3-AS1	grey
EHF	blue
CD44	blue
CD44	grey
FJX1	grey
LDLRAD3	grey

MIR3973	grey
MIR670	grey
SEC14L1P1	turquoise
ACCS	grey
CD82	pink
LOC221122	grey
SLC35C1	red
CRY2	grey
MAPK8IP1	grey
LOC101928894	grey
MIR4688	grey
MIR3160-2	grey
LRP4-AS1	grey
DDB2	grey
MIR4487	grey
MIR3161	turquoise
OR4X2	grey
LOC440040	grey
OR4C46	grey
TRIM48	grey
OR4C15	grey
OR4C16	grey
OR4S2	grey
OR4C6	grey
OR5L2	grey
TRIM51	grey
OR8H2	grey
OR8H3	grey
OR5T1	grey
OR8K3	grey
OR8U1	grey
LOC101927120	grey
LRRC55	grey
RTN4RL2	green
MIR130A	grey
OR6Q1	grey
OR1S1	grey
FAM111B	grey
FAM111A	turquoise
DTX4	green
OR4D6	grey
OR4D10	grey
OR4D11	grey
LOC101927226	grey
STX3	brown
OR10V2P	grey
MS4A2	grey
MS4A4A	blue
MS4A7	blue
MS4A14	blue
TMEM109	pink

TMEM132A	grey
CD5	grey
PGA5	grey
TKFC	green
TMEM138	brown
SDHAF2	grey
FADS2	grey
SCGB1D2	grey
SNORA57	black
TTC9C	grey
TMEM179B	pink
SLC22A10	magenta
SLC22A9	yellow
LGALS12	grey
RARRES3	blue
FLRT1	grey
FERMT3	blue
VEGFB	pink
FKBP2	grey
KCNK4	grey
MIR1237	grey
LOC100996455	grey
SAC3D1	grey
TM7SF2	pink
ZNHIT2	grey
FRMD8	grey
NEAT1	grey
NEAT1	turquoise
EHBP1L1	blue
OVOL1	grey
SNX32	grey
CTSW	blue
TSGA10IP	grey
KLC2	grey
CNIH2	grey
TMEM151A	grey
LOC102724064	green
DPP3	pink
ACTN3	grey
C11orf86	grey
RHOD	grey
MIR54811	green
LRP5	green
MIR3164	grey
LOC102724265	grey
LINC01488	grey
CCND1	pink
ANO1	grey
MIR548K	turquoise
KRTAP5-8	grey
KRTAP5-9	grey

FAM86C1	grey
LRTOMT	grey
FOLR1	grey
FOLR2	blue
LINC01537	grey
ARAP1-AS2	grey
MIR4692	grey
P2RY2	red
MRPL48	turquoise
LOC101928580	grey
MIR548AL	turquoise
NEU3	green
TPBGL	grey
SNORD15B	black
SERPINH1	pink
MOGAT2	green
DGAT2	grey
LOC100506127	grey
TSKU	red
MYO7A	green
AQP11	green
AAMDC	pink
THRSP	red
KCTD21-AS1	green
USP35	grey
RPS28	grey
RAB30-AS1	turquoise
PCF11	turquoise
ANKRD42	grey
LOC102724712	turquoise
PRSS23	red
LOC102724775	grey
LOC100506368	grey
TMEM135	brown
MIR3166	grey
FOLH1B	magenta
TRIM77	grey
NAALAD2	blue
MTNR1B	grey
SCARNA9	black
C11orf54	magenta
PIWIL4	blue
FUT4	grey
CEP57	yellow
ARHGAP42	brown
ARHGAP42	grey
TMEM133	brown
BIRC3	blue
BIRC2	yellow
LOC101928477	grey
DYNC2H1	turquoise

RAB39A	blue
DDX10	brown
ZC3H12C	turquoise
COLCA2	grey
LOC644277	grey
MIR34B	grey
SIK2	yellow
C11orf1	magenta
DIXDC1	green
TEX12	grey
BCO2	yellow
PTS	yellow
LOC101928823	grey
TTC12	green
ZBTB16	yellow
NNMT	yellow
REXO2	brown
LOC101929011	grey
TAGLN	blue
BACE1-AS	green
IL10RA	blue
CD3E	blue
CD3G	grey
TTC36	green
TMEM25	green
CXCR5	grey
MIR4492	grey
HMBS	grey
CBL	blue
RNF26	pink
LOC102724301	grey
LOC729173	grey
OAF	green
TMEM136	blue
TBCEL	yellow
TECTA	grey
SC5D	red
LOC341056	grey
GRAMD1B	grey
OR10G9	grey
OR10G8	grey
OR10D3	grey
OR8G5	grey
TBRG1	turquoise
LOC101929340	grey
LOC100507283	turquoise
HEPN1	grey
CCDC15	magenta
SLC37A2	blue
EI24	red
HYLS1	grey

FAM118B	brown
DCPS	yellow
LOC101929427	red
BARX2	grey
TMEM45B	red
C11orf44	grey
NTM-IT	grey
GLB1L3	grey
LOC283177	turquoise
LOC388572	grey
HRAS	grey
IRF7	grey
CDHR5	pink
POLR2L	pink
CHID1	green
MUC6	grey
DUSP8	grey
KRTAP5-1	grey
KRTAP5-2	grey
KRTAP5-3	grey
KRTAP5-4	grey
FAM99B	grey
CTSD	pink
MIR4298	grey
MRPL23-AS1	grey
H19	grey
MIR483	grey
ASCL2	grey
KCNQ1OT1	red
SNORA54	black
MRGPRG	grey
MRGPRE	grey
OR7E12P	grey
LOC101927708	grey
TRIM21	pink
OR51G2	grey
OR51A4	grey
OR51A2	grey
OR52A5	grey
OR51V1	grey
HBB	grey
HBG1	grey
HBG2	grey
OR51B4	grey
OR51I1	grey
UBQLN3	grey
UBQLNL	grey
TRIM5	brown
OR52N1	grey
OR56A5	grey
OR56A1	grey

TPP1	pink
DCHS1	blue
GVINP1	brown
LOC102724711	grey
LOC100506258	turquoise
LOC100506258	turquoise
CYB5R2	grey
CASC23	grey
LOC100129111	grey
RIC3	grey
LMO1	grey
TRIM66	turquoise
TRIM66	turquoise
SCUBE2	grey
TMEM41B	brown
LYVE1	blue
ZBED5	turquoise
CSNK2A3	turquoise
MIR4299	grey
PTH	grey
LOC101928132	grey
CALCA	grey
SOX6	grey
PLEKHA7	turquoise
SNORD14A	grey
LOC102723330	grey
SAA2	grey
HPS5	red
UEVLD	brown
MRGPRX1	grey
CSRP3	grey
LOC100126784	grey
FANCF	brown
SLC5A12	grey
LGR4	magenta
LOC102723403	grey
MPPED2	grey
DCDC5	turquoise
DCDC1	turquoise
IMMP1L	turquoise
LOC101928385	grey
TPT1-AS1	turquoise
WT1	grey
CSTF3	brown
C11orf91	grey
APIP	brown
LOC100507144	grey
SLC1A2	grey
PAMR1	brown
HNRNPKP3	grey
LOC399884	grey

ALX4	grey
TP53I11	grey
MIR3160-1	grey
SNORD67	black
PACSIN3	green
ACP2	pink
LOC101928943	grey
SPI1	blue
MTCH2	brown
AGBL2	green
NUP160	turquoise
PTPRJ	green
TRIM64C	grey
FOLH1	green
OR4C12	grey
OR5I1	grey
OR10AG1	grey
OR7E5P	grey
OR5F1	grey
OR8K5	grey
OR5M1	grey
APLNR	pink
TNKS1BP1	green
PRG3	grey
PRG2	turquoise
SLC43A3	green
UBE2L6	blue
OR9I1	grey
OR1S2	grey
OR10Q1	grey
OR5B17	grey
OR5B12	grey
OR5B21	grey
LOC283194	grey
LOC101927204	green
MPEG1	blue
OR5A2	grey
MIR3162	grey
MS4A6A	blue
MS4A4E	blue
SLC15A3	blue
VWCE	grey
CYB561A3	pink
CPSF7	turquoise
SYT7	grey
FADS1	grey
LOC100507521	grey
SCGB1D4	grey
LOC102723765	grey
INTS5	pink
ZBTB3	green

SNHG1	brown
SLC22A24	turquoise
SLC22A25	green
HRASLS2	grey
PLA2G16	grey
NRXN2	grey
RASGRP2	grey
PYGM	grey
MAP4K2	grey
MIR192	green
MIR194-2HG	green
SYVN1	pink
LOC728975	grey
LTBP3	grey
KCNK7	grey
FOSL1	grey
CATSPER1	grey
SPTBN2	grey
PC	grey
MIR3163	grey
CDK2AP2	pink
NUDT8	grey
ACY3	pink
ALDH3B2	grey
FAM86C2P	grey
CHKA	turquoise
C11orf24	pink
CPT1A	yellow
MRGPRF	grey
ORAOV1	grey
ANO1-AS2	grey
SHANK2	grey
MIR3664	grey
SHANK2	yellow
SHANK2	grey
DHCR7	red
MIR54811	green
ALG1L9P	grey
LOC100133315	turquoise
MIR3165	grey
MIR139	grey
FCHSD2	brown
LOC100287837	grey
RAB6A	red
UCP2	blue
P4HA3	grey
XRRA1	green
OR2AT4	grey
MIR326	grey
KLHL35	grey
LOC283214	grey

LOC100506113	grey
WNT11	grey
LRRRC32	blue
LOC101928837	grey
GDPD4	green
PAK1	grey
CLNS1A	brown
ALG8	brown
GAB2	yellow
LOC101928865	turquoise
MIR708	grey
MIR4300	grey
FAM181B	grey
RAB30	blue
SNORA70E	grey
LOC100506282	turquoise
CCDC90B	brown
DLG2	grey
CCDC89	grey
SYTL2	grey
CTSC	blue
TRIM49	grey
TRIM64	grey
TRIM51EP	grey
TRIM53AP	grey
SLC36A4	yellow
SMCO4	grey
TAF1D	yellow
SNORA8	black
TAF1D	yellow
TAF1D	grey
TAF1D	yellow
SNORD6	grey
TAF1D	yellow
VSTM5	grey
MRE11A	turquoise
MIR548L	turquoise
SESN3	brown
FAM76B	yellow
MTMR2	blue
MAML2	blue
CCDC82	turquoise
MMP7	grey
MMP8	grey
PDGFD	grey
CASP5	grey
CASP1	blue
CARD16	blue
CARD17	grey
MSANTD4	red
KBTBD3	grey

SLN	grey
NPAT	turquoise
C11orf65	turquoise
EXPH5	turquoise
ARHGAP20	grey
COLCA1	grey
PPP2R1B	yellow
IL18	blue
LOC387810	grey
NXPE4	grey
ZPR1	yellow
APOA5	grey
APOA4	red
SIK3-IT1	yellow
TMPRSS4-AS1	grey
SCN4B	grey
JAML	blue
MPZL2	green
CD3D	grey
TREH	green
BCL9L	grey
HYOU1	red
DPAGT1	pink
MCAM	grey
USP2	green
TRIM29	grey
MIR125B1	grey
BLID	turquoise
HSPA8	brown
SNORD14E	black
MIR4493	grey
SCN3B	grey
OR6T1	grey
OR10S1	grey
OR10G7	grey
OR8B4	grey
OR8B8	grey
OR8B12	grey
SIAE	brown
HEPACAM	grey
PATE2	grey
PUS3	grey
CDON	turquoise
SENCR	grey
ADAMTS8	grey
SNX19	red
OPCML-IT1	grey
IGSF9B	grey
B3GAT1	grey
WASH3P	grey
LOC101929384	grey

LINC00942	grey
ADIPOR2	red
CACNA1C-IT3	grey
LOC100507424	green
LOC105369606	grey
TIGAR	grey
KCNA6	grey
KCNA1	grey
KCNA5	grey
CD9	grey
TAPBPL	grey
SCARNA10	black
LOC100127974	grey
CD4	blue
GPR162	grey
P3H3	grey
RPL13P5	pink
DSTNP2	grey
ENO2	grey
MIR200C	grey
MIR141	grey
CLSTN3	green
DPPA3	grey
CLEC4A	yellow
CLEC6A	grey
KLRG1	blue
A2M-AS1	grey
LINC00987	red
LOC642846	grey
LOC374443	blue
CLEC2D	blue
KLRF1	blue
CLEC12A	blue
CLEC9A	grey
GABARAPL1	yellow
KLRD1	yellow
LINC01252	grey
PTMA	grey
APOLD1	yellow
APOLD1	grey
RPL13AP20	grey
GPRC5A	grey
EMP1	blue
H2AFJ	grey
LINC01489	grey
LOC102724196	grey
PIK3C2G	magenta
PLEKHA5	turquoise
LOC101928387	grey
LOC100506393	grey
SLCO1B3	red

SLCO1B7	grey
IAPP	grey
PYROXD1	brown
GOLT1B	brown
CMAS	brown
ETNK1	brown
MIR920	grey
LOC101928471	grey
FGFR1OP2	yellow
STK38L	brown
ARNTL2	yellow
PPFIBP1	turquoise
REP15	turquoise
FAR2	blue
FLJ13224	grey
KIAA1551	red
FGD4	yellow
DNM1L	brown
ALG10	brown
ALG10B	grey
LRRK2	turquoise
IRAK4	turquoise
TMEM117	red
LOC102723757	grey
PCED1B	blue
ANP32D	grey
OR8S1	grey
PRPH	grey
DNAJC22	pink
BCDIN3D-AS1	grey
AQP5	grey
GPD1	green
COX14	green
HIGD1C	grey
LETMD1	turquoise
SCN8A	turquoise
ANKRD33	grey
GRASP	yellow
NR4A1	yellow
OR7E47P	grey
OR7E47P	grey
KRT73-AS1	grey
KRT18	grey
TNS2	green
IGFBP6	grey
SOAT2	grey
ZNF740	turquoise
MFSD5	pink
ESPL1	grey
LOC100652999	green
HOXC13	grey

HOXC11	grey
MIR196A2	grey
HOXC9	grey
MIR615	grey
FLJ12825	grey
LOC100240734	grey
LOC400043	grey
LOC102724030	grey
MIR148B	grey
LOC102724050	grey
NCKAP1L	blue
OR10A7	grey
OR6C75	grey
OR10P1	grey
METTTL7B	pink
ORMDL2	blue
SUOX	green
RPS26	grey
ERBB3	turquoise
ESYT1	red
COQ10A	green
LOC102724133	grey
SPRYD4	brown
GPR182	grey
NAB2	grey
NXPH4	grey
INHBC	pink
INHBE	pink
ARHGEF25	grey
ATP23	brown
SLC16A7	red
SRGAP1	red
XPOT	brown
RASSF3	blue
TBC1D30	blue
FLJ41278	grey
IRAK3	yellow
HELB	turquoise
HELB	grey
RAP1B	yellow
MDM2	yellow
LYZ	blue
YEATS4	magenta
FRS2	turquoise
MIR3913-2	grey
LOC100507330	grey
LGR5	grey
THAP2	green
TMEM19	brown
TRHDE	grey
GLIPR1L2	grey

GLIPR1	blue
LOC652993	brown
MYF6	grey
ACSS3	red
TMTC2	grey
C12orf29	brown
TMTC3	red
LINC00936	grey
LOC102724933	grey
NUDT4	turquoise
MRPL42	brown
SOCS2	grey
CRADD	yellow
CRADD	yellow
CEP83-AS1	grey
KRT19P2	grey
MIR331	grey
AMDHD1	magenta
LOC102723340	magenta
NEDD1	brown
MIR1251	grey
TMPO	yellow
SLC25A3	grey
APAF1	yellow
MIR1827	grey
ACTR6	brown
SCYL2	brown
GAS2L3	blue
SPIC	blue
MYBPC1	grey
DRAM1	blue
HELLPAR	grey
ASCL1	red
STAB2	brown
HSP90B1	red
IGANRP	blue
MIR3922	grey
C12orf45	red
C12orf75	grey
LOC101929132	green
TCP11L2	yellow
TMEM263	yellow
BTBD11	grey
DAO	green
MVK	grey
MIR4497	grey
IFT81	turquoise
ATP2A2	brown
FAM216A	grey
CUX2	grey
SH2B3	blue

ADAM1A	turquoise
OAS1	blue
OAS3	blue
OAS2	blue
DTX1	grey
CFAP73	grey
SDSL	brown
LINC00173	grey
MAP1LC3B2	grey
KSR2	grey
TMEM233	grey
CCDC64	red
MLEC	pink
UNC119B	green
P2RX7	green
P2RX4	blue
LOC101928346	grey
ORAI1	pink
TMEM120B	grey
SETD1B	grey
BCL7A	grey
MLXIP	pink
KNTC1	turquoise
LOC100507091	grey
LOC100293704	grey
GTF2H3	brown
TCTN2	grey
ATP6V0A2	brown
GLT1D1	grey
LOC283352	grey
FZD10	grey
ADGRD1	grey
LOC100128002	grey
SNORA49	black
EP400NL	turquoise
LOC100130238	grey
LOC101928530	grey
ZNF26	turquoise
ZNF140	brown
ZNF10	turquoise
ZNF268	brown
SLC6A12	red
LOC102723544	grey
DCP1B	green
LOC283440	grey
RPS27	grey
LOC100128253	grey
CRACR2A	grey
CRACR2A	grey
PARP11	turquoise
C12orf4	turquoise

AKAP3	grey
VAMP1	red
IFFO1	green
SCARNA11	black
LPCAT3	pink
RBP5	green
CD163L1	blue
CD163	blue
APOBEC1	grey
CLEC4C	grey
SLC2A3	yellow
C3AR1	blue
POU5F1P3	grey
FAM90A1	grey
FAM86FP	grey
LINC00937	grey
CLEC4E	yellow
A2M	blue
PZP	red
A2MP1	grey
PTMA	grey
DDX12P	grey
KLRB1	blue
CD69	yellow
CLEC2B	blue
LOC100506159	grey
LOC400002	grey
CLEC1B	brown
CLEC7A	blue
OLR1	grey
KLRC4-KLRK1	blue
KLRC3	blue
KLRC1	grey
KLRA1P	turquoise
MAGOHB	turquoise
YBX3	yellow
TAS2R9	grey
PRR4	turquoise
TAS2R10	green
TAS2R13	turquoise
TAS2R14	turquoise
TAS2R50	turquoise
TAS2R20	turquoise
TAS2R19	turquoise
TAS2R31	turquoise
TAS2R46	grey
TAS2R30	turquoise
PRB1	grey
PRB2	grey
LRP6	turquoise
MANSC1	blue

DUSP16	yellow
GPRC5D	grey
GSG1	grey
PLBD1	blue
SMCO3	grey
ART4	yellow
MGP	blue
ERP27	blue
ARHGDIB	blue
SLCO1A2	magenta
RECQL	brown
GYS2	magenta
KCNJ8	yellow
C2CD5	turquoise
SOX5	magenta
KRAS	yellow
MIR4302	grey
ASUN	brown
TM7SF3	yellow
C12orf71	grey
KLHL42	grey
LOC729291	grey
LOC100506606	grey
ERGIC2	brown
TMTC1	grey
CAPRIN2	turquoise
OVOS	grey
AMN1	grey
H3F3C	grey
PKP2	magenta
SYT10	grey
KIF21A	turquoise
ABCD2	grey
SLC2A13	brown
GXYLT1	brown
YAF2	yellow
PUS7L	turquoise
TWF1	brown
RACGAP1P	grey
PLEKHA8P1	grey
LINC00938	turquoise
SLC38A1	blue
SLC38A2	yellow
PCED1B-AS1	blue
RPAP3	brown
SENP1	brown
OR10AD1	grey
LALBA	grey
SNORA2C	black
SNORA2A	black
SNORA2B	grey

ADCY6	green
RND1	grey
FKBP11	pink
DDN	grey
TUBA1B	grey
FAM186B	grey
CERS5	brown
LIMA1	blue
MIR1293	grey
SLC11A2	brown
SMAGP	pink
BIN2	blue
KRT80	grey
KRT81	grey
KRT83	grey
KRT82	grey
KRT75	grey
KRT6B	grey
KRT6A	grey
KRT71	grey
KRT74	grey
KRT73	grey
KRT1	grey
KRT77	grey
KRT76	grey
KRT79	grey
ITGB7	red
RARG	grey
SP7	grey
HOXC-AS3	grey
LOC100240735	grey
ZNF385A	grey
PPP1R1A	green
PHC1	grey
MMP19	yellow
CS	pink
APOF	grey
GLS2	green
SNORD59B	black
SNORD59A	black
PRIM1	brown
RDH16	red
ZBTB39	green
TAC3	grey
NEMP1	brown
STAC3	grey
DDIT3	grey
MIR616	brown
AVIL	turquoise
LOC283387	grey
LOC101927653	yellow

LRIG3	green
AVPR1A	red
C12orf66	brown
LOC100507065	grey
RPSAP52	grey
LOC101927901	grey
MDM1	turquoise
SNORA70G	grey
MDM2	turquoise
CPM	brown
MIR3913-1	grey
LOC101928002	grey
LINC01481	turquoise
PTPRB	yellow
TSPAN8	grey
MRS2P2	grey
TRHDE-AS1	grey
CAPS2	turquoise
PHLDA1	yellow
BBS10	brown
CSRP2	yellow
MIR617	grey
MIR618	grey
RASSF9	blue
MKRN9P	grey
CEP290	turquoise
KITLG	grey
DUSP6	blue
ATP2B1	brown
LUM	blue
BTG1	yellow
LOC101930023	grey
UBE2N	turquoise
SOCS2-AS1	grey
LOC101928731	grey
CEP83	turquoise
TMCC3	yellow
NR2C1	turquoise
FGD6	turquoise
NTN4	blue
HAL	yellow
CDK17	yellow
SLC9A7P1	grey
LOC643770	grey
IKBIP	blue
ANKS1B	grey
GOLGA2P5	green
NUP37	brown
IGF1	magenta
LINC00485	grey
NT5DC3	magenta

SLC41A2	brown
NUAK1	blue
CKAP4	grey
LOC100505978	grey
MTERF2	turquoise
CRY1	yellow
LOC728739	grey
CMKLR1	blue
SELPLG	blue
CORO1C	blue
MIR619	brown
USP30-AS1	red
LOC105369974	green
FOXN4	grey
MMAB	grey
MMAB	turquoise
FAM222A-AS1	grey
TRPV4	green
GPN3	grey
PPTC7	yellow
PPP1CC	green
MYL2	grey
MAPKAPK5-AS1	turquoise
TMEM116	grey
RASAL1	grey
SDS	yellow
LHX5	grey
TBX3	green
C12orf49	red
HRK	grey
FBXO21	magenta
LOC105370027	grey
RNU6-71P	turquoise
MSI1	grey
HNF1A-AS1	green
OASL	grey
RHOF	grey
HCAR2	grey
HCAR3	grey
PITPNM2	green
MPHOSPH9	green
SBNO1	turquoise
DNAH10OS	grey
UBC	yellow
LINC00939	turquoise
LINC00944	grey
LOC101927616	grey
SLC15A4	yellow
STX2	grey
CHFR	grey
LOC101928597	grey

ZNF891	grey
RNU6-76P	grey
LOC101928697	grey
LINC00421	grey
IFT88	turquoise
LINC00540	grey
LOC102725144	grey
SGCG	grey
TNFRSF19	grey
C1QTNF9B-AS1	grey
MIR2276	grey
C1QTNF9	grey
LINC00566	grey
TPTE2P6	grey
NUP58	turquoise
RNU6-78P	grey
WASF3	grey
USP12-AS1	grey
USP12-AS2	grey
RPL21	grey
SNORD102	black
RASL11A	grey
PDX1	grey
ATP5EP2	grey
RNU6-82P	turquoise
POMP	blue
LOC105370138	green
MTUS2	red
RNU6-64P	grey
USPL1	turquoise
ALOX5AP	blue
LINC00398	green
B3GLCT	brown
EEF1DP3	grey
FRY	red
FRY	red
BRCA2	grey
STARD13-AS	grey
RNU6-71P	black
SPG20-AS1	grey
SERTM1	grey
RFXAP	turquoise
EXOSC8	brown
UFM1	brown
FREM2	red
RNU6-56P	grey
NHLRC3	turquoise
COG6	brown
SLC25A15	yellow
WBP4	brown
LOC101929140	grey

RGCC	grey
VWA8-AS1	grey
DGKH	brown
FAM216B	grey
DNAJC15	brown
LINC00400	grey
ENOX1-AS2	grey
LACC1	brown
LINC00284	grey
SMIM2-AS1	turquoise
SERP2	grey
SLC25A30-AS1	grey
COG3	yellow
CPB2-AS1	yellow
RNU6-68P	grey
LRCH1	brown
HTR2A-AS1	magenta
SUCLA2-AS1	grey
MED4-AS1	grey
RB1	brown
CYSLTR2	grey
CDADC1	turquoise
SETDB2	turquoise
KCNRG	grey
ST13P4	grey
RNASEH2B	brown
CKAP2	red
HNRNPA1L2	grey
OLFM4	grey
PCDH17	blue
DIAPH3-AS1	grey
LINC01442	grey
OR7E156P	grey
RNU6-81P	grey
PCDH9-AS2	grey
BORA	green
PIBF1	turquoise
LOC105370259	grey
LOC101927121	grey
BTF3P11	grey
CLN5	brown
RBM26-AS1	grey
SLITRK5	grey
LINC00433	grey
MIR622	blue
GPC5	grey
GPR180	red
CLDN10	grey
DNAJC3	brown
HS6ST3	grey
MBNL2	yellow

RAP2A	blue
FARP1	turquoise
STK24-AS1	grey
DOCK9-AS1	grey
RNU6-83P	grey
FKSG29	turquoise
MIR623	turquoise
CLYBL	brown
MIR4306	turquoise
CLYBL	turquoise
ZIC2	grey
PCCA	grey
ITGBL1	grey
FGF14-AS2	grey
TNFSF13B	blue
LINC00403	grey
LINC01070	grey
LINC01043	grey
ATP11A	grey
F7	pink
PROZ	grey
GRK1	grey
GAS6-AS1	grey
MIR4502	grey
ANKRD20A9P	grey
TUBA3C	grey
GJB2	red
MIR4499	yellow
XPO4	turquoise
MICU2	brown
RNU6-59P	black
LINC00424	grey
LINC00621	grey
ANKRD20A19P	grey
SPATA13-AS1	grey
GPR12	grey
USP12	yellow
LINC00412	turquoise
URAD	grey
FLT3	grey
PAN3-AS1	grey
FLT1	blue
SLC46A3	red
RNU6-53P	grey
UBL3	magenta
LINC00384	grey
KATNAL1	brown
LINC00427	grey
LOC102723392	grey
HSPH1	brown
FRY-AS1	grey

N4BP2L1	yellow
N4BP2L2	turquoise
MINOS1P1	turquoise
N4BP2L2-IT2	turquoise
STARD13	yellow
SPG20	brown
POSTN	grey
LINC00571	grey
LHFP	blue
MIR4305	grey
LINC00548	yellow
LINC00598	yellow
FOXO1	yellow
MIR320D1	grey
TPTE2P5	turquoise
ELF1	yellow
MIR3168	grey
KBTBD7	brown
RNU6-57P	grey
EPSTI1	blue
CCDC122	grey
SMIM2-IT1	grey
TUSC8	green
TPT1	black
SNORA31	yellow
SLC25A30	yellow
SIAH3	grey
ZC3H13	yellow
LCP1	blue
KIAA0226L	blue
HTR2A	grey
SUCLA2	brown
LINC00441	turquoise
LPAR6	brown
CAB39L	grey
DLEU2	turquoise
MIR16-1	grey
GUCY1B2	grey
NEK3	grey
MRPS31P5	grey
THSD1	grey
MIR548X2	grey
PCDH9	brown
RNU6-79P	grey
CTAGE11P	grey
KCTD12	blue
FBXL3	yellow
MIR3665	grey
EDNRB	brown
NDFIP2-AS1	grey
SPRY2	yellow

RNU6-72P	grey
SLITRK6	blue
MIR4500HG	grey
LINC00353	grey
LINC00410	grey
DCT	grey
TGDS	yellow
SOX21	grey
ABCC4	grey
DZIP1	turquoise
DNAJC3-AS1	grey
UGGT2	brown
LINC00359	grey
FLT1	yellow
SLC15A1	green
DOCK9	brown
UBAC2-AS1	grey
GPR18	grey
GPR183	blue
ZIC5	grey
GGACT	red
LOC100507654	grey
FGF14	grey
FGF14-IT1	grey
TEX30	yellow
KDELC1	brown
EFNB2	blue
LIG4	green
MYO16-AS1	grey
IRS2	yellow
LOC101927646	grey
LOC101927712	grey
COL4A1	blue
LINC00567	grey
ANKRD10	turquoise
ANKRD10-IT1	turquoise
ARHGEF7-AS1	grey
LOC101928730	grey
TUBGCP3	turquoise
LOC440149	grey
MCF2L-AS1	grey
LOC101928841	grey
ATP4B	grey
LINC00552	grey
GAS6	blue
RASA3	grey
OR11H12	grey
POTEG	grey
OR4K1	grey
OR4N5	grey
PNP	green

EDDM3B	grey
RNASE6	blue
RNASE3	grey
ECRP	grey
RNASE2	grey
SLC39A2	grey
TPPP2	green
ARHGEF40	green
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
TRAV8-3	grey
TRAC	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
TRDV3	grey
YME1L1	grey
YME1L1	grey
TRDV3	blue
OR6C4	grey
YME1L1	grey
YME1L1	grey
TRAV20	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	blue
YME1L1	blue
MGC40069	grey
YME1L1	blue
TRAV12-2	grey
YME1L1	grey
YME1L1	blue
YME1L1	blue
YME1L1	blue
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	grey
YME1L1	blue
YME1L1	blue
YME1L1	blue
YME1L1	grey
YME1L1	grey
TRAJ17	grey
YME1L1	grey
YME1L1	grey

YME1L1	grey
YME1L1	grey
YME1L1	grey
TRAJ17	blue
ABHD4	brown
MRPL52	grey
MMP14	blue
LRP10	pink
LOC101926933	grey
PSMB11	grey
IL25	grey
NGDN	grey
DHRS2	grey
DHRS4-AS1	grey
DHRS4	grey
CPNE6	red
FITM1	grey
IRF9	grey
IRF9	blue
REC8	grey
LTB4R2	grey
NYNRIN	grey
LINC00645	grey
MIR548Y	grey
G2E3	brown
SCFD1	brown
AP4S1	grey
NUBPL	turquoise
IGBP1P1	grey
SRP54	brown
FAM177A1	yellow
MIPOL1	turquoise
TTC6	turquoise
SSTR1	green
LOC644919	grey
FAM179B	turquoise
PRPF39	turquoise
SNORD127	grey
FANCM	turquoise
MGAT2	blue
KLHDC1	turquoise
ATP5S	turquoise
LINC00640	grey
PTGDR	grey
GPR137C	grey
CDKN3	grey
MAPK1IP1L	blue
LGALS3	blue
PELI2	grey
ARID4A	turquoise
TOMM20L	grey

DACT1	grey
DAAM1	yellow
LOC101927729	grey
SLC38A6	turquoise
HIF1A	blue
SYNE2	red
AKAP5	yellow
HSPA2	grey
MIR4706	grey
LINC00238	grey
GPHN	magenta
EIF2S1	brown
RDH12	grey
PLEKHD1	grey
SMOC1	magenta
TTC9	grey
SNORD56B	turquoise
LOC145474	yellow
RGS6	grey
NUMB	green
ACOT1	grey
ACOT2	grey
ACOT4	grey
MIR4505	grey
LOC100506476	grey
ZNF410	brown
PTGR2	yellow
BBOF1	grey
LIN52	green
FCF1	brown
FOS	yellow
LINC01220	grey
FLVCR2	grey
MIR7641-2	grey
IFT43	yellow
LOC283575	grey
CIPC	yellow
MIR1260A	grey
GSTZ1	green
SAMD15	grey
DIO2-AS1	grey
TSHR	grey
LOC101928599	grey
FLRT2	green
GPR65	blue
LINC01146	green
SPATA7	turquoise
TTC8	turquoise
LOC101928817	grey
FOXN3-AS1	grey
LOC101927029	grey

KCNK13	grey
CALM1	turquoise
SNORA11B	grey
CPSF2	brown
CHGA	grey
ITPK1-AS1	grey
IFI27	blue
PPP4R4	grey
SERPINA5	grey
SERPINA5	grey
SERPINA13P	grey
LOC100506999	grey
TCL1B	grey
C14orf132	red
GSKIP	brown
VRK1	grey
HHIPL1	grey
MIR345	grey
SLC25A47	pink
MEG3	grey
MIR770	grey
MIR493	grey
MIR337	grey
MIR665	grey
MIR431	grey
MIR432	grey
MIR370	grey
SNORD113-1	turquoise
SNORD113-3	yellow
SNORD113-4	yellow
SNORD113-5	grey
SNORD113-8	grey
SNORD113-9	grey
SNORD114-1	black
SNORD114-2	yellow
SNORD114-3	black
SNORD114-4	grey
SNORD114-6	grey
SNHG24	yellow
SNORD114-7	grey
SNORD114-11	grey
SNORD114-12	black
SNORD114-13	grey
SNORD114-14	black
SNORD114-15	blue
SNORD114-16	grey
SNORD114-17	brown
SNORD114-21	black
SNORD114-22	grey
SNORD114-26	grey
SNORD114-27	grey

SNORD114-28	black
SNORD114-30	grey
SNORD114-31	brown
MIR299	grey
MIR1197	grey
MIR323A	grey
MIR329-1	grey
MIR329-2	grey
MIR494	grey
MIR543	grey
MIR495	grey
MIR376A2	grey
MIR654	grey
MIR1185-1	grey
MIR1185-2	grey
MIR381	grey
MIR487B	grey
MIR539	grey
MIR544A	grey
MIR487A	grey
MIR134	grey
MIR668	grey
MIR377	grey
MIR409	grey
MIR412	grey
LOC101929422	grey
LINC00239	grey
MIR4309	grey
AMN	grey
TNFAIP2	blue
SNORA28	black
ASPG	grey
ADSSL1	magenta
ZBTB42	grey
CRIP1	grey
LOC642426	grey
OR11H2	grey
TTC5	turquoise
CCNB1IP1	magenta
SNORD126	black
RPPH1	black
RNASE1	blue
NDRG2	green
RNASE13	grey
LINC00641	turquoise
SNORD9	black
SNORD8	black
RAB2B	brown
AJUBA	grey
CEBPE	grey
SLC7A8	blue

MYH6	grey
MYH7	grey
LINC00596	grey
DHRS4-AS1	green
IPO4	grey
DHRS1	green
CIDEB	pink
RIPK3	blue
CBLN3	grey
CTSG	grey
GZMH	grey
GZMB	grey
STXBP6	grey
PRKD1	yellow
LOC100506071	turquoise
MIR624	turquoise
HEATR5A	brown
SPTSSA	red
CFL2	yellow
BAZ1A	yellow
SRP54-AS1	turquoise
PPP2R3C	brown
NFKBIA	yellow
FLJ42220	grey
FOXA1	grey
LINC00639	grey
LOC101927418	grey
MIS18BP1	brown
RPL10L	grey
MIR548Y	brown
DNAAF2	grey
POLE2	grey
MIR4504	green
MAP4K5	brown
SAV1	brown
NIN	blue
PYGL	green
LOC400212	grey
TRIM9	grey
LOC102723604	grey
NID2	grey
TXNDC16	brown
ERO1A	brown
GNPNAT1	magenta
FERMT2	magenta
DDHD1	red
BMP4	blue
GCH1	brown
MIR4308	grey
WDHD1	grey
DLGAP5	grey

KTN1-AS1	grey
EXOC5	brown
C14orf105	green
C14orf37	grey
PSMA3-AS1	turquoise
GPR135	turquoise
DHRS7	red
SIX1	grey
HIF1A-AS1	grey
WDR89	brown
MIR548H1	green
TEX21P	grey
MTHFD1	turquoise
GPX2	blue
RAB15	grey
MIR4708	grey
PLEK2	grey
RDH11	red
CCDC177	grey
ADAM20P1	turquoise
ADAM20	turquoise
LOC101928123	grey
HEATR4	grey
PNMA1	grey
ELMSAN1	yellow
SYNDIG1L	grey
NPC2	blue
PROX2	grey
ACYP1	turquoise
LOC102724153	grey
C14orf1	red
TGFB3	yellow
NOXRED1	grey
ALKBH1	brown
LOC101928462	red
SNORA79	turquoise
STON2	blue
SEL1L	red
GALC	brown
LOC101928791	grey
KCNK10	grey
NRDE2	green
TC2N	blue
FBLN5	grey
ATXN3	turquoise
ATXN3	turquoise
LGMN	blue
ASB2	grey
SERPINA6	red
SERPINA2	grey
SERPINA11	red

SERPINA12	grey
GSC	grey
CLMN	yellow
LINC00341	green
SYNE3	green
SNHG10	black
ATG2B	turquoise
LOC100132612	grey
LINC01550	grey
CCDC85C	grey
MIR151B	grey
WARS	blue
BEGAIN	grey
RTL1	grey
DIO3OS	grey
DIO3OS	grey
HSP90AA1	brown
CINP	brown
CKB	grey
MIR4710	grey
AHNAK2	grey
IGHA2	grey
IGHG4	grey
IGHA1	grey
IGHG1	grey
IGHM	grey
IGHD	grey
IGHM	grey
IGHD	grey
IGHA1	grey
SKAP2	grey
IGHG1	grey
IGH	grey
ADAM6	grey
IGHM	grey
IGHM	blue
IGHG1	grey
IGHD	grey
IGHG1	blue
IGK	grey
IGHG1	blue
IGHG1	grey
IGHG1	grey
EPC1	grey
SKAP2	blue
IGHM	grey
IGHA1	blue
IGHA1	grey
IGHG1	grey
IGHV7-81	grey
CHEK2P2	grey

RNU6-69P	grey
MIR3118-4	grey
LINC01193	grey
RNU6-69P	grey
MIR3118-4	grey
REREP3	grey
HERC2P7	green
GOLGA8EP	grey
GOLGA8S	turquoise
MKRN3	grey
LOC101928792	grey
SNRPN	grey
PWARSN	turquoise
PWAR5	turquoise
SNRPN	turquoise
SNORD109B	grey
IPW	turquoise
SNRPN	turquoise
SNORD116-1	black
IPW	grey
SNRPN	grey
SNORD116-2	black
SNRPN	grey
SNORD116-3	black
SNORD116-5	black
SNORD116-2	black
SNORD116-5	black
SNORD116-3	black
SNORD116-3	black
SNORD116-10	grey
SNORD116-11	grey
SNORD116-12	grey
SNORD116-14	black
SNORD116-28	turquoise
SNRPN	turquoise
SNRPN	turquoise
SNORD116-20	black
SNORD116-21	grey
SNRPN	turquoise
SNORD116-23	black
SNRPN	turquoise
SNORD116-24	black
SNRPN	turquoise
SNRPN	turquoise
SNORD116-25	black
SNRPN	turquoise
SNRPN	turquoise
SNORD116-26	black
SNORD116-27	black
SNRPN	turquoise
SNRPN	turquoise

SNORD116-29	black
SNRPN	turquoise
SNRPN	turquoise
SNORD116-30	black
SNRPN	turquoise
SNRPN	turquoise
SNRPN	turquoise
SNRPN	turquoise
PWAR1	turquoise
SNORD115-1	black
SNRPN	grey
SNORD115-5	black
SNRPN	grey
SNORD115-4	black
SNRPN	grey
SNORD115-5	black
SNRPN	grey
IPW	grey
SNORD115-5	black
SNORD115-5	black
SNORD115-1	black
SNORD115-17	black
SNORD115-17	black
SNORD115-17	black
SNORD115-20	black
SNORD115-5	black
SNORD115-25	black
SNORD115-27	black
SNORD115-5	black
SNORD115-30	black
SNORD115-31	black
SNORD115-32	black
SNORD115-5	black
SNORD115-38	black
SNORD115-5	black
SNORD115-4	black
SNORD115-5	black
SNORD115-44	black
SNORD115-45	grey
SNORD109B	grey
LOC100128714	grey
LINC00929	grey
MIR4509-1	grey
PDCD6IPP2	grey
LOC100130111	grey
ULK4P3	grey
GOLGA80	turquoise
ARHGAP11B	grey
LOC100288637	grey
KLF13	grey
GOLGA80	turquoise

ARHGAP11A	grey
SCG5	magenta
GREM1	grey
CHRM5	grey
ANP32AP1	grey
FAM98B	brown
THBS1	yellow
SRP14-AS1	red
INAFM2	brown
DISP2	grey
KNSTRN	grey
CHST14	grey
RPUSD2	grey
CASC5	grey
GCHFR	grey
DLL4	blue
CHAC1	grey
OIP5-AS1	yellow
NUSAP1	blue
MIR626	turquoise
GANC	yellow
GANC	yellow
CAPN3	red
SNAP23	brown
TMEM62	brown
CCNDBP1	brown
ADAL	brown
WDR76	grey
C15orf43	grey
DUOXA2	grey
DUOX1	grey
SPATA5L1	brown
BLOC1S6	brown
SEMA6D	green
CEP152	grey
DTWD1	turquoise
SLC27A2	yellow
GABPB1-AS1	turquoise
AP4E1	turquoise
DCAF13P3	turquoise
MIR4713	grey
MAPK6	yellow
LOC100129973	grey
PIGB	brown
C15orf65	grey
CGNL1	green
LIPC	magenta
LOC101928668	green
FAM63B	brown
RORA-AS1	yellow
RORA-AS1	yellow

LOC101928907	grey
C2CD4A	grey
LACTB	brown
RAB8B	blue
APH1B	blue
SLC51B	grey
RNU5B-1	black
HACD3	brown
RAB11A	brown
MIR4311	grey
MAP2K1	yellow
ZWILCH	brown
LINC01169	grey
SMAD6	turquoise
C15orf61	grey
SKOR1	grey
DRAIC	red
THSD4	green
HEXA-AS1	grey
TMEM202	grey
LOC646670	green
GOLGA6A	green
BBS4	brown
CD276	grey
ISLR	grey
LOC729739	grey
UBL7-AS1	turquoise
CYP1A2	green
CPLX3	grey
CPLX3	grey
GOLGA6C	green
GOLGA6C	green
COMMD4	grey
DNM1P35	grey
UBE2Q2	blue
PSTPIP1	grey
LOC101929457	grey
LINGO1-AS2	grey
MIR1827	grey
IDH3A	brown
HYKK	green
RASGRF1	grey
MIR184	grey
TMED3	grey
ZFAND6	turquoise
ABHD17C	grey
CEMIP	grey
TMC3-AS1	green
SAXO2	grey
ADAMTS7P1	grey
UBE2Q2P2	turquoise

UBE2Q2P2	turquoise
GOLGA6L4	turquoise
TM6SF1	blue
EFTUD1P1	grey
UBE2Q2L	grey
LOC440300	yellow
GOLGA2P7	grey
LOC103171574	grey
LINC00933	grey
SCAND2P	turquoise
ALPK3	grey
SLC28A1	green
AKAP13	yellow
GOLGA6L10	turquoise
LINC00052	grey
ACAN	grey
ABHD2	brown
FANCI	grey
MIR9-3	grey
WDR93	grey
MESP2	grey
MIR3174	grey
LOC400446	grey
IQGAP1	blue
LINC01585	grey
SV2B	grey
CRAT37	green
SLCO3A1	blue
ST8SIA2	grey
ASB9P1	grey
LINC01578	yellow
MCTP2	brown
NR2F2	green
ARRDC4	red
IGF1R	blue
LRRRC28	turquoise
CERS3-AS1	grey
OR4F6	grey
WASH3P	grey
HERC2P3	turquoise
GOLGA6L6	grey
LOC646214	grey
CXADRP2	grey
NF1P2	grey
MIR4509-1	grey
NIPA2	brown
NIPA1	red
WHAMMP3	turquoise
HERC2P2	turquoise
NDN	grey
PWRN2	grey

MIR4715	grey
GABRB3	grey
OCA2	grey
MIR4509-1	grey
GOLGA8M	turquoise
GOLGA6L7P	grey
CHRFAM7A	grey
GOLGA8R	turquoise
GOLGA8O	turquoise
WHAMMP1	turquoise
LOC101929988	grey
SLC12A6	grey
GOLGA8A	turquoise
GOLGA8A	turquoise
GOLGA8A	grey
GJD2	grey
ZNF770	brown
DPH6	turquoise
MIR3942	turquoise
CSNK1A1P1	grey
LOC145845	grey
LOC102724253	grey
GPR176	grey
C15orf56	grey
C15orf57	grey
MRPL42P5	grey
RAD51-AS1	grey
PPP1R14D	grey
NDUFAF1	blue
MIR4310	grey
EHD4	brown
PLA2G4F	grey
TMEM87A	yellow
ZNF106	turquoise
ZSCAN29	turquoise
CATSPER2	turquoise
PPIP5K1	grey
PPIP5K1	grey
PPIP5K1	grey
PPIP5K1	turquoise
PPIP5K1	turquoise
PPIP5K1	grey
PPIP5K1	grey
PPIP5K1	turquoise
PPIP5K1	turquoise
PPIP5K1	turquoise
PPIP5K1	turquoise
PPIP5K1	turquoise
PPIP5K1	grey
CATSPER2P1	brown
MIR1282	grey
FRMD5	grey

PIN4P1	grey
PATL2	grey
SLC30A4	brown
MYEF2	grey
FBN1	blue
ATP8B4	yellow
HDC	grey
USP8	grey
USP50	grey
TRPM7	turquoise
SPPL2A	brown
LOC105370814	grey
TNFAIP8L3	grey
DMXL2	turquoise
LYSMD2	grey
BCL2L10	grey
GNB5	red
GNB5	red
MYO5C	red
MIR1266	grey
MYO5A	blue
ARPP19	brown
FAM214A	magenta
ONECUT1	turquoise
LOC101928499	red
WDR72	magenta
RAB27A	brown
PIGBOS1	grey
MIR628	turquoise
NEDD4	yellow
RFX7	green
MNS1	grey
ZNF280D	turquoise
ZNF280D	grey
ZNF280D	turquoise
ALDH1A2	grey
LOC101928694	grey
HSP90AB4P	grey
MYO1E	brown
MIR2116	grey
BNIP2	yellow
RORA	yellow
C2CD4B	grey
GOLGA2P11	grey
LOC100128979	grey
RPS27L	grey
CA12	grey
MIR422A	grey
DAPK2	grey
FAM96A	red
KIAA0101	grey

MTFMT	brown
UBAP1L	grey
CILP	grey
DENND4A	yellow
TIPIN	green
SCARNA14	black
SNORD18C	yellow
SNORD18B	yellow
SNORD16	black
SNORD18A	black
LCTL	grey
LOC102723481	grey
LOC102723493	green
CALML4	green
CLN6	pink
MIR4312	grey
LOC102723548	grey
TLE3	grey
LOC101929151	grey
UACA	brown
THAP10	grey
MYO9A	brown
PKM	blue
PARP6	turquoise
GOLGA6A	green
CYP1A1	green
MIR4513	grey
SCAMP2	pink
RPP25	grey
PTPN9	blue
DNM1P35	grey
NRG4	grey
TYRO3P	turquoise
TSPAN3	magenta
LINC00597	turquoise
LOC645752	grey
TBC1D2B	yellow
ACSBG1	grey
ADAMTS7	grey
BCL2A1	blue
LINC01314	grey
LOC101929586	grey
STARD5	grey
EFL1	grey
LOC338963	grey
ACTG1P17	grey
HOMER2	magenta
BTBD1	brown
HDGFRP3	blue
CSPG4P5	grey
UBE2Q2P1	turquoise

LOC101929679	grey
KLHL25	red
DET1	turquoise
MFGE8	blue
RLBP1	grey
PLIN1	magenta
PEX11A	turquoise
ANPEP	pink
IDH2	pink
GABARAPL3	grey
LINC00930	grey
LOC105370978	grey
LINC01581	grey
LOC100130976	grey
SPATA8-AS1	grey
LOC101927286	grey
LINC01582	grey
FAM169B	grey
TTC23	turquoise
LYSMD4	grey
DNM1P46	grey
ADAMTS17	red
SPATA41	yellow
PRKXP1	turquoise
LINS1	turquoise
PCSK6	red
TARSL2	turquoise
DDX11L10	grey
WASIR2	grey
HBM	grey
HBQ1	grey
ARHGDIG	grey
CAPN15	green
WFIKKN1	grey
FAM195A	grey
METRNL	pink
CACNA1H	green
TPSD1	grey
TMEM204	blue
MIR3177	grey
SNHG9	grey
NPW	grey
MIR4516	grey
RAB26	green
MIR4717	grey
NTN3	grey
TBC1D24	green
ATP6V0C	pink
FLJ42627	green
LINC00514	grey
TNFRSF12A	grey

LOC100128770	grey
MMP25	grey
IL32	blue
OR1F1	grey
OR1F2P	grey
LINC00921	grey
DNASE1	green
VASN	grey
SMIM22	grey
ALG1	blue
ABAT	green
PMM2	brown
ATF7IP2	red
ATF7IP2	red
CIITA	blue
LOC100505564	grey
SNN	blue
TNFRSF17	grey
MIR4718	grey
ERCC4	green
MIR193BHG	grey
MIR365A	turquoise
NOMO1	red
MIR3179-2	grey
MPV17L	green
NDE1	blue
NOMO2	red
PKD1P1	turquoise
TMC7	grey
SYT17	green
CLEC19A	grey
CCP110	brown
IQCK	brown
ACSM5	red
ACSM3	magenta
TMEM159	grey
NPIP3	grey
METTL9	brown
OTOA	grey
SMG1P1	turquoise
LOC100190986	turquoise
LOC653786	grey
HS3ST2	grey
PRKCB	blue
SLC5A11	grey
AQP8	grey
HS3ST4	grey
C16orf82	grey
KDM8	red
FLJ21408	grey
FLJ21408	green

ATP2A1	grey
MIR4517	turquoise
LAT	grey
LOC613037	turquoise
RRN3P2	grey
SPN	blue
QPRT	pink
ZG16	pink
PRRT2	grey
MVP	blue
CDIPT-AS1	grey
LOC101928595	grey
CORO1A	blue
ZNF48	grey
ZNF771	grey
ITGAL	blue
MIR4518	grey
SNORA30	grey
ORAI3	pink
HSD3B7	pink
LOC101928762	turquoise
BCKDK	pink
PYCARD-AS1	grey
ITGAM	blue
ITGAX	blue
ITGAD	grey
TGFB111	pink
SLC5A2	grey
LOC101928829	green
ZNF267	blue
TP53TG3	grey
FLJ26245	grey
GPT2	yellow
LOC100507577	turquoise
C16orf78	grey
CNEP1R1	brown
ADCY7	blue
CASC22	grey
LOC102723373	grey
FTO-IT1	turquoise
IRX5	grey
IRX6	grey
MMP2	grey
MMP2	blue
LPCAT2	blue
CES1P1	grey
GNAO1	green
MIR3935	grey
LOC102723466	grey
MT3	grey
MT2A	grey

MT1L	grey
MT1E	yellow
MT1M	grey
MT1JP	grey
MT1A	grey
MT1B	grey
MT1F	grey
MT1H	grey
MT1X	grey
MIR138-2	grey
CETP	blue
CPNE2	blue
ARL2BP	blue
CX3CL1	green
ADGRG3	grey
GINS3	grey
CDH5	blue
CMTM3	blue
PDP2	grey
PDP2	grey
CES3	green
CES4A	green
HSF4	grey
HSD11B2	pink
C16orf86	grey
NUTF2	grey
SLC7A6	grey
ZFP90	turquoise
CDH3	grey
CDH1	brown
UTP4	brown
SNTB2	brown
CYB5B	brown
CLEC18A	grey
MIR1972-1	grey
PDPR	green
CLEC18C	grey
SNORD111	black
IL34	grey
CHST4	grey
TAT-AS1	grey
MARVELD3	grey
DHODH	brown
HPR	grey
LINC01568	grey
PSMD7	brown
NPIP15	grey
ZFP1	magenta
TERF2IP	grey
MON1B	pink
SYCE1L	grey

NUDT7	blue
CENPN	brown
BCO1	red
LOC100129617	turquoise
PLCG2	grey
PLCG2	yellow
PLCG2	yellow
HSD17B2	red
CDH13	grey
MIR3182	grey
OSGIN1	green
NECAB2	green
ADAD2	grey
KLHL36	grey
CRISPLD2	yellow
LOC101928557	grey
FLJ30679	grey
FOXC2	grey
FOXL1	grey
MAP1LC3B	yellow
LOC101928737	grey
LOC101928880	grey
SNAI3-AS1	grey
TRAPPC2L	magenta
CDH15	grey
ZNF778	grey
DPEP1	grey
VPS9D1-AS1	grey
LOC100134822	turquoise
LOC729737	turquoise
LUC7L	turquoise
C16orf13	grey
JMJD8	pink
SSTR5-AS1	grey
TPSG1	grey
TPSB2	grey
IGFALS	grey
HS3ST6	grey
MSRB1	red
RPL3L	grey
SNORA64	black
SNORA10	black
RPS2	grey
MIR3180-4	grey
SNORD60	black
BRICD5	grey
MIR3178	grey
ERVK13-1	turquoise
HCFC1R1	grey
ADCY9	green
SRL	grey

TFAP4	grey
NMRAL1	pink
UBALD1	grey
GLYR1	blue
TMEM114	grey
EMP2	magenta
TEKT5	grey
PRM3	grey
PRM2	grey
PRM1	grey
MIR548H2	turquoise
LOC400499	grey
LITAF	blue
CPPED1	red
PLA2G10	green
ABCC6P2	green
MIR3180-3	grey
MIR1972-1	grey
NTAN1	grey
RRN3	yellow
MIR3180-4	grey
MYH11	grey
FOPNL	brown
MIR3179-1	grey
NOMO2	red
RPS15A	grey
SMG1	turquoise
GDE1	red
GPR139	grey
ACSM1	grey
ERI2	turquoise
LOC100190986	turquoise
SMG1P1	turquoise
SLC7A5P2	grey
LOC101927814	grey
IGSF6	blue
RRN3P1	turquoise
RRN3P3	turquoise
GSG1L	grey
NPIP6	turquoise
CLN3	red
SULT1A2	green
LOC101928215	grey
LOC101928188	grey
SMG1P2	turquoise
NPIP5	turquoise
SMG1P5	turquoise
LOC100289283	grey
CDIPT	pink
DOC2A	grey
YPEL3	grey

SMG1P5	turquoise
LOC100506928	grey
ZNF689	blue
BCL7C	pink
FBXL19-AS1	grey
STX1B	grey
PRSS53	grey
VKORC1	grey
PRSS8	grey
PRSS36	grey
PYCARD	blue
PYDC1	grey
COX6A2	grey
ZNF843	grey
YBX3P1	grey
HERC2P4	turquoise
SLC6A10P	grey
UBE2MP1	grey
FRG2DP	grey
TP53TG3HP	grey
SHCBP1	grey
VPS35	brown
MYLK3	grey
C16orf87	yellow
NETO2	grey
ITFG1	grey
ABCC11	grey
SALL1	yellow
LOC102723323	red
TOX3	grey
AKTIP	brown
IRX3	grey
LOC100996345	grey
CES5A	grey
MT1G	grey
PLLP	red
DOK4	grey
KIFC3	grey
ZNF319	pink
CFAP20	yellow
SNORA46	black
SNORA50A	black
GOT2	magenta
APOOP5	grey
BEAN1	grey
TK2	grey
CMTM4	green
B3GNT9	grey
MIR328	grey
TPPP3	grey
LOC100505942	grey

GFOD2	yellow
LCAT	pink
DPEP3	grey
ESRP2	green
SMPD3	grey
TMED6	grey
NQO1	grey
LOC400541	grey
SMG1P7	turquoise
SMG1P7	turquoise
AARS	red
LOC100506083	turquoise
ST3GAL2	pink
MTSS1L	green
VAC14	pink
HYDIN	grey
ZNF23	grey
ZNF19	grey
TAT	yellow
PHLPP2	blue
SNORA70D	grey
SNORD71	black
PKD1L3	red
CLEC18B	grey
CHST5	grey
TMEM231	grey
ADAMTS18	grey
MAF	green
MAFTRR	green
PRCAT47	grey
C16orf46	turquoise
GCSH	green
MPHOSPH6	grey
HSDL1	grey
KCNG4	grey
FAM92B	grey
LOC101928502	grey
GINS2	grey
FENRR	grey
LOC105371395	grey
LOC101928682	grey
LOC102724467	grey
SLC7A5	pink
CA5A	red
MVD	red
PABPN1L	grey
FANCA	green
CENPBD1	grey
GAS8-AS1	grey
PRDM7	grey
LOC100506388	grey

C17orf97	grey
FAM57A	grey
LOC105371485	grey
HIC1	grey
LOC101927839	grey
SRR	brown
OR1A2	grey
OR1A1	grey
OR1D4	grey
OR3A4P	grey
OR3A3	grey
ASPA	magenta
SPNS2	grey
ARRB2	blue
MED11	pink
TM4SF5	pink
ENO3	green
LOC101928000	grey
USP6	grey
LOC100130950	green
MIS12	brown
FAM64A	grey
XAF1	blue
ALOX12P2	turquoise
SLC16A13	pink
SLC2A4	grey
TMEM95	grey
NLGN2	grey
C17orf74	grey
CHRNA1	pink
SLC35G6	grey
SNORD10	black
CD68	blue
SHBG	red
ATP1B2	pink
RPL29P2	grey
KDM6B	yellow
RANGRF	red
USP43	grey
ADPRM	yellow
MAP2K4	brown
MIR744	grey
LINC00670	grey
CDRT15P1	grey
HS3ST3B1	red
MGC12916	turquoise
ZNF286A	grey
TBC1D26	grey
CDRT15P2	grey
MEIS3P1	grey
PIGL	turquoise

CCDC144B	grey
CCDC144B	grey
FAM106CP	turquoise
NT5M	grey
EVPLL	grey
LGALS9C	grey
FBXW10	grey
SNORD3B-1	black
GRAPL	grey
SNORD3B-1	black
EPN2-IT1	grey
SLC47A1	green
SNORA59B	black
CCDC144CP	grey
NOS2P3	grey
CDRT15L2	grey
FAM27E5	grey
FLJ36000	grey
WSB1	yellow
TBC1D3P5	grey
PYY2	grey
PPY2P	grey
TMEM97	red
TNFAIP1	blue
SPAG5-AS1	grey
SNORD42A	black
SNORD4B	brown
PIPOX	green
TP53I13	grey
CPD	brown
TBC1D29	grey
LRRRC37BP1	grey
SH3GL1P2	grey
ATAD5	turquoise
ADAP2	blue
DPRXP4	grey
RAB11FIP4	green
MIR193A	grey
MIR4725	grey
LRRRC37B	grey
SH3GL1P1	grey
TMEM98	grey
CCL2	blue
CCL8	grey
LIG3	brown
LIG3	grey
SLFN5	blue
SNORD7	green
AP2B1	brown
C17orf50	grey
LOC102724850	grey

CCL4	grey
CCL4L2	blue
PIGW	grey
DHRS11	blue
AATF	pink
MIR2909	grey
TADA2A	turquoise
MRPL45	brown
LOC100287808	grey
MIR4727	grey
LOC100131347	grey
TCAP	grey
ERBB2	green
GRB7	grey
LOC101928947	grey
LRRC3C	grey
THRA	green
RAPGEFL1	green
CDC6	grey
RARA	grey
LOC105371775	grey
TMEM99	green
KRTAP9-1	grey
KRTAP9-8	grey
TTC25	grey
CNP	blue
NAGLU	pink
COASY	pink
TUBG1	pink
TUBG2	grey
RAMP2	blue
AOC2	grey
AOC3	blue
AOC4P	grey
G6PC	yellow
IFI35	blue
RND2	red
NBR2	green
TMEM106A	blue
ARL4D	grey
MIR2117	grey
FAM215A	grey
NAGS	green
RUNDC3A	grey
GRN	pink
CCDC103	grey
ACBD4	green
HEXIM1	grey
FMNL1	grey
ARL17A	green
STH	grey

KANSL1-AS1	grey
NSF	brown
LRRRC37A2	turquoise
WNT9B	grey
ITGB3	blue
EFCAB13	turquoise
PRAC2	grey
ATP5G1	blue
LOC102724596	grey
FLJ45513	grey
PDK2	pink
LOC101927230	grey
TMEM92	grey
EME1	grey
SPATA20	grey
UTP18	brown
LOC105371828	grey
TOM1L1	magenta
STXBP4	turquoise
HLF	yellow
PCTP	grey
DGKE	yellow
SCPEP1	blue
RNF126P1	grey
DYNLL2	red
MSX2P1	grey
OR4D2	grey
EPX	grey
BZRAP1-AS1	grey
RAD51C	brown
PRR11	blue
SMG8	grey
GDPD1	grey
YPEL2	yellow
MIR4729	grey
DHX40	brown
VMP1	brown
MIR21	yellow
LOC101927755	grey
TBX2	grey
TBX4	grey
METTTL2A	brown
TANC2	blue
DCAF7	pink
PSMC5	grey
PRR29	grey
SNORD104	black
SNORA50C	black
MIR634	grey
PITPNC1	red
SNORA38B	black

KPNA2	blue
LOC440461	grey
LINC01482	magenta
MAP2K6	turquoise
LINC01483	grey
KCNJ16	grey
LINC01152	grey
SSTR2	grey
GPRC5C	green
CD300A	blue
C17orf77	grey
LOC101928343	grey
SLC9A3R1	pink
OTOP2	grey
HID1-AS1	pink
MRPS7	brown
LOC100287042	grey
SMIM5	grey
SMIM6	brown
ITGB4	grey
GALR2	grey
UBALD2	yellow
SPHK1	grey
SNORD1B	black
SNORD1A	black
MFSD11	brown
LOC100507351	grey
TNRC6C	grey
SYNGR2	blue
BIRC5	grey
LOC101928674	grey
C1QTNF1	blue
ENPP7	red
LOC102723961	grey
MIR4730	grey
MIR3065	grey
C17orf89	grey
FSCN2	grey
TSPAN10	grey
TSPAN10	grey
SLC25A10	green
GCGR	green
RAC3	grey
SLC16A3	grey
UTS2R	grey
METRNL	grey
RPL23AP87	grey
DOC2B	grey
LOC100506371	grey
NXN	grey
LOC100130876	grey

MIR3183	grey
TLCD2	red
MIR22HG	red
RTN4RL1	grey
MIR212	grey
SNORD91B	black
SNORD91A	grey
METTLL16	turquoise
CLUH	grey
MIR1253	grey
OR1D5	grey
OR1D2	grey
OR3A1	grey
OR1E2	grey
SPATA22	grey
TRPV3	grey
TRPV1	green
SHPK	green
NCBP3	turquoise
ATP2A3	grey
CXCL16	blue
VMO1	grey
LOC284014	grey
INCA1	grey
LOC102724009	grey
ZNF594	green
SCIMP	blue
NUP88	turquoise
DERL2	red
MED31	brown
SLC13A5	grey
TEKT1	grey
ALOX12-AS1	grey
ALOX12-AS1	turquoise
MIR497	grey
SLC16A11	grey
CLEC10A	blue
MIR324	grey
PHF23	grey
CLDN7	grey
YBX2	grey
ZBTB4	pink
SOX15	grey
SAT2	grey
TP53	pink
TRAPPC1	pink
PER1	yellow
CTC1	red
SLC25A35	red
LOC100128288	grey
KRBA2	grey

CCDC42	grey
SPDYE4	grey
MFSD6L	grey
GAS7	grey
MYH8	grey
MYH4	grey
MYH1	grey
MYH2	grey
TMEM220	grey
LINC00675	grey
MIR1269B	grey
LOC100506974	red
COX10-AS1	red
CDRT15	grey
LOC400576	grey
MIR4731	grey
CDRT4	turquoise
LOC101928567	grey
ZSWIM7	turquoise
CENPV	grey
RASD1	grey
PEMT	pink
SMCR5	grey
SREBF1	green
MIR33B	grey
SHMT1	grey
USP32P2	turquoise
FAM106A	grey
CCDC144B	turquoise
TBC1D28	grey
FAM83G	red
GRAP	pink
SNORD3B-1	black
SNORD3D	black
SNORD3C	black
MIR1180	grey
MFAP4	blue
SLC47A2	grey
LGALS9B	blue
KRT16P3	grey
C17orf51	grey
MIR4522	grey
NOS2	grey
LYRM9	grey
LOC101926984	grey
SEBOX	grey
SLC46A1	green
UNC119	blue
ALDOC	red
SPAG5	red
SGK494	turquoise

DHRS13	grey
ABHD15	green
SSH2	blue
MIR3184	grey
BLMH	magenta
CRLF3	blue
TEFM	turquoise
MIR4733	grey
LOC101927057	grey
EVI2B	blue
EVI2A	blue
C17orf75	turquoise
LOC101927239	grey
CCL1	grey
C17orf102	grey
CCT6B	magenta
RAD51D	grey
SLFN13	grey
SLFN12L	grey
CCL5	blue
CCL16	grey
CCL15-CCL14	blue
CCL23	grey
TBC1D3B	turquoise
CCL3L3	grey
TBC1D3B	turquoise
TBC1D3H	turquoise
TBC1D3B	turquoise
MYO19	turquoise
ACACA	grey
HNF1B	green
YWHAEP7	grey
TBC1D3B	turquoise
LOC440434	turquoise
LOC101929494	grey
C17orf96	grey
SNORA21	grey
SNORA21	black
STAC2	grey
PGAP3	pink
IKZF3	blue
GSDMB	turquoise
ORMDL3	grey
SNORD124	grey
NR1D1	grey
TOP2A	grey
KRT222	grey
KRT222	grey
KRT25	grey
KRT27	grey
KRT39	grey

KRTAP1-5	grey
KRTAP1-1	grey
KRTAP2-1	grey
KRTAP2-2	grey
KRTAP4-8	grey
KRTAP4-11	grey
KRTAP4-5	grey
KRTAP4-3	grey
KRTAP4-2	grey
KRT33B	grey
KRT31	grey
KRT37	grey
KRT38	grey
KRT32	grey
KRT35	grey
KRT13	grey
KRT19	grey
KRT9	grey
KRT14	grey
KRT42P	grey
JUP	pink
NT5C3B	grey
KLHL11	turquoise
ACLY	red
DHX58	grey
STAT3	brown
PTRF	blue
HSD17B1	grey
LINC00671	grey
LINC00854	grey
PPY	grey
ASB16-AS1	green
RUNDC3A-AS1	grey
FAM171A2	grey
GFAP	grey
C1QL1	grey
DCAKD	pink
ARHGAP27	grey
PLEKHM1	grey
LRRRC37A4P	grey
LOC644172	grey
ARL17B	green
ARL17A	green
LRRRC37A2	turquoise
FAM215B	turquoise
RPRML	grey
OSBPL7	grey
SP6	grey
LOC102724532	grey
PRR15L	grey
CBX1	grey

SKAP1	blue
MIR1203	green
HOXB1	grey
HOXB4	grey
HOXB9	grey
PRAC1	grey
HOXB13	grey
GIP	grey
LOC101927207	grey
DLX3	grey
HILS1	grey
COL1A1	grey
LRRRC59	red
CHAD	green
TOB1	yellow
MBTD1	magenta
LOC101927274	grey
MMD	blue
TMEM100	yellow
C17orf67	grey
MTVR2	grey
TRIM25	green
MRPS23	grey
SRSF1	turquoise
LOC101927666	grey
MIR142	blue
RNF43	green
HSF5	grey
MTMR4	green
SEPT4	green
SKA2	grey
TUBD1	turquoise
RNFT1	yellow
LOC653653	grey
USP32	red
SCARNA20	black
APPBP2	brown
BRIP1	green
CSH2	grey
GH2	grey
CSH1	grey
GH1	grey
SCN4A	grey
PRR29-AS1	grey
ERN1	yellow
POLG2	turquoise
DDX5	turquoise
MIR5047	turquoise
SMURF2	brown
LRRRC37A3	grey
AMZ2P1	grey

GNA13	yellow
CEP112	grey
LOC101928045	grey
C17orf58	grey
SLC16A6	grey
WIP1	brown
MIR635	brown
FAM20A	turquoise
ABCA8	turquoise
ABCA9	turquoise
ABCA6	magenta
MIR4524A	yellow
ABCA10	turquoise
ABCA5	turquoise
LOC102723505	grey
SOX9-AS1	grey
LOC102723517	grey
SOX9-AS1	grey
LINC00673	grey
BTBD17	grey
CD300LB	grey
CD300LD	grey
CD300LF	grey
NAT9	green
HN1	blue
SUMO2	grey
SLC25A19	blue
H3F3B	brown
LOC100507191	grey
WBP2	pink
FOXJ1	grey
RHBDF2	grey
CYGB	green
ST6GALNAC2	blue
MXRA7	blue
MIR4316	grey
TK1	grey
LOC100996291	grey
SOCS3	yellow
CYTH1	yellow
TIMP2	blue
CEP295NL	grey
LGALS3BP	pink
MIR4739	grey
CBX8	grey
TBC1D16	pink
NPTX1	grey
MIR657	grey
MIR338	grey
MIR1250	turquoise
ACTG1	brown

OXLD1	grey
ARL16	turquoise
PPP1R27	grey
MYADML2	grey
NOTUM	grey
FASN	red
LOC101929511	grey
LOC105376790	grey
RAB40B	grey
MIR4525	grey
LOC101929552	grey
ZNF750	grey
ARL17A	grey
ARL17B	turquoise
LOC644172	grey
LOC644172	grey
NSF	brown
PLEKHM1	pink
LOC644172	grey
KANSL1-AS1	grey
MGC70870	green
TYMS	grey
SMCHD1	yellow
MYL12A	yellow
DLGAP1-AS1	blue
DLGAP1-AS2	blue
DLGAP1-AS3	grey
ANKRD12	turquoise
TWSG1	brown
RAB31	blue
APCDD1	grey
NAPG	brown
SLC35G4	grey
GNAL	grey
IMPA2	brown
TUBB6	grey
PSMG2	brown
CEP192	turquoise
LDLRAD4	magenta
RNMT	brown
MC5R	grey
ANKRD20A5P	grey
CYP4F35P	grey
MIR3156-2	grey
GREB1L	yellow
SNRPD1	brown
MIR320C1	grey
RBBP8	brown
C18orf8	red
LAMA3	red
DSG1	green

DSG2	brown
LOC646778	red
RNF125	magenta
MEP1B	grey
WBP11P1	grey
ASXL3	grey
DTNA	grey
MAPRE2	brown
MIR3975	turquoise
MOCOS	grey
FHOD3	grey
KIAA1328	grey
SETBP1	yellow
SLC14A1	grey
HAUS1	grey
RNF165	green
MIR1539	grey
LIPG	green
SCARNA17	grey
MAPK4	grey
ME2	red
SMAD4	turquoise
SMAD4	grey
C18orf54	grey
RAB27B	grey
WDR7	grey
ST8SIA3	grey
LOC100505549	brown
NEDD4L	red
MIR122	turquoise
LOC102724745	grey
MALT1	turquoise
ZNF532	blue
SEC11C	grey
PMAIP1	grey
TNFRSF11A	grey
SERPINB2	grey
SERPINB8	brown
CCDC102B	grey
DOK6	grey
CNDP1	brown
LOC339298	grey
NFATC1	grey
HSBP1L1	magenta
RBFA	grey
RBFADN	grey
ADNP2	grey
PARD6G-AS1	grey
COLEC12	grey
ENOSF1	turquoise
YES1	brown

LINC00470	green
METTTL4	yellow
LPIN2	yellow
LOC727896	yellow
MYOM1	red
DLGAP1	grey
C18orf42	grey
LINC00526	grey
EPB41L3	blue
TMEM200C	grey
L3MBTL4	turquoise
MIR4317	turquoise
LOC102724397	grey
PPP4R1	brown
C18orf61	grey
PIZO2	magenta
SPIRE1	grey
CEP76	red
LOC100996324	grey
ZNF519	green
CXADRP3	grey
POTEC	grey
ESCO1	turquoise
ABHD3	brown
GATA6-AS1	grey
CTAGE1	grey
NPC1	brown
ANKRD29	red
ZNF521	grey
KCTD1	grey
PCAT18	grey
AQP4	grey
CHST9	blue
DSC2	brown
DSG2-AS1	grey
B4GALT6	red
SLC25A52	grey
GAREM1	magenta
NOL4	green
MIR187	grey
SLC39A6	brown
TPGS2	blue
CELF4	grey
MIR924	grey
KC6	grey
PSTPIP2	yellow
TCEB3CL2	grey
TCEB3C	grey
IER3IP1	brown
SMAD2	turquoise
ZBTB7C	grey

SMAD7	grey
SNORD58C	grey
SNORD58A	black
ACAA2	magenta
MIR4320	turquoise
MRO	yellow
SNORA37	black
CCDC68	yellow
LOC101927229	grey
TCF4	blue
LOC642484	grey
ATP8B1	red
ALPK2	grey
RAX	grey
CCBE1	blue
MC4R	grey
RNF152	yellow
PIGN	turquoise
BCL2	blue
KDSR	red
CDH19	yellow
DSEL	yellow
TMX3	turquoise
CD226	blue
RTTN	magenta
LOC102724895	grey
LOC101060542	grey
NETO1	grey
FAM69C	grey
SMIM21	grey
LINC01029	grey
GZMM	grey
BSG	pink
HCN2	grey
FGF22	grey
MIR3187	grey
PRTN3	grey
CFD	blue
KISS1R	grey
GRIN3B	grey
CNN2	blue
ATP5D	pink
CIRBP	grey
CIRBP	green
EFNA2	grey
RPS15	grey
APC2	grey
REEP6	pink
ADAT3	grey
TMPRSS9	grey
GADD45B	yellow

ZNF554	green
ZNF555	grey
ZNF57	grey
GNA11	pink
GNA15	grey
S1PR4	grey
CELF5	grey
NFIC	pink
CACTIN-AS1	grey
ATCAY	grey
NMRK2	grey
CREB3L3	red
ANKRD24	grey
EBI3	grey
SHD	grey
MIR4746	grey
KDM4B	grey
ZNRF4	grey
RPL36	grey
NRTN	red
ACSBG2	grey
ALKBH7	black
VAV1	blue
ADGRE1	blue
ZNF557	turquoise
C19orf45	grey
ZNF358	grey
PET100	grey
TRAPPC5	grey
CLEC4M	blue
CLEC4GP1	grey
LRRC8E	grey
TGFBR3L	grey
RPS28	grey
ANGPTL4	red
MARCH2	blue
OR2Z1	grey
OR1M1	grey
OR7D2	grey
OR7E24	grey
ZNF559	turquoise
LOC101928238	grey
ZNF561-AS1	grey
C3P1	red
SNORD105	black
SNORD105B	black
ICAM1	blue
PDE4A	grey
SLC44A2	blue
MIR4748	grey
LDLR	yellow

ANGPTL8	green
TSPAN16	grey
CCDC159	red
ZNF627	grey
ZNF833P	grey
ZNF440	turquoise
ZNF69	turquoise
ZNF844	grey
ZNF788	grey
ZNF136	turquoise
ZNF791	turquoise
BEST2	grey
JUNB	yellow
MAST1	grey
GCDH	green
CALR	red
NFIX	green
NACC1	grey
NACC1	pink
IER2	grey
LOC113230	grey
LOC100507373	grey
LOC101928845	grey
ADGRE5	blue
TECR	pink
CLEC17A	grey
OR7C2	grey
CYP4F22	pink
CYP4F3	magenta
CYP4F8	grey
OR10H2	grey
OR10H3	grey
UCA1	grey
OR10H4	grey
TPM4	blue
KLF2	grey
TMEM38A	grey
F2RL3	grey
BISPR	pink
SLC27A1	grey
B3GNT3	grey
SNORA68	black
KCNN1	grey
MAST3	green
IFI30	blue
LOC102725254	grey
MIR3188	black
GDF15	grey
MIR3189	grey
KXD1	pink
SLC25A42	pink

MIR640	grey
CILP2	grey
ZNF101	turquoise
ZNF253	grey
ZNF93	grey
ZNF486	grey
ZNF714	grey
ZNF431	grey
ZNF429	turquoise
DHTKD1	grey
LOC641367	grey
ZNF257	grey
GOLGA2P9	grey
ZNF254	red
PLEKHF1	grey
LRP3	pink
CEBPA-AS1	grey
CEBPG	grey
KCTD15	grey
GPI	pink
SCGB2B3P	grey
ZNF302	turquoise
LOC100652911	grey
ZNF30	green
HPN-AS1	grey
FXYD3	grey
FXYD1	pink
FXYD5	blue
LSR	pink
HAMP	grey
MAG	grey
CD22	grey
FFAR3	grey
LINC01531	grey
FFAR2	grey
TMEM147	blue
ARHGAP33	grey
HCST	blue
CAPNS1	pink
LOC728752	grey
ZNF529-AS1	grey
ZNF382	grey
ZNF567	green
ZNF790-AS1	grey
ZNF568	grey
ZNF420	turquoise
ZNF383	turquoise
ZNF527	turquoise
ZNF570	grey
ZNF793	grey
C19orf33	grey

PSMD8	blue
ACTN4	pink
ECH1	grey
ECH1	grey
IFNL1	grey
ZFP36	yellow
LOC723805	grey
TIMM50	blue
SELV	grey
LGALS16	grey
LGALS17A	grey
LGALS14	grey
PLD3	pink
ITPKC	grey
CYP2G1P	grey
CYP2B7P	grey
AXL	blue
CCDC97	pink
BCKDHA	pink
CEACAM5	grey
CEACAM6	grey
DMRTC2	grey
ARHGEF1	grey
TMEM145	grey
LIPE-AS1	yellow
LOC100289650	grey
CD177	grey
IRGC	grey
ZNF283	turquoise
ZNF221	turquoise
ZNF155	grey
ZNF230	grey
ZNF222	grey
ZNF223	grey
ZNF284	turquoise
ZNF224	turquoise
ZNF225	turquoise
ZNF234	grey
ZNF226	turquoise
IGSF23	grey
PVR	yellow
CEACAM16	grey
BCL3	grey
CBLC	grey
BCAM	blue
NECTIN2	pink
APOC1P1	grey
CLPTM1	pink
KLC3	grey
FOSB	yellow
PPM1N	grey

EML2-AS1	grey
MIR642A	grey
FOXA3	pink
MIR769	grey
IGFL2	grey
IGFL1	grey
HIF3A	grey
MIR3190	grey
CCDC9	grey
C5AR1	yellow
C5AR2	red
SNORD23	grey
CRX	grey
SNAR-C2	grey
SNAR-C2	grey
CARD8-AS1	blue
EMP3	grey
EMP3	blue
GRIN2D	grey
KCNJ14	grey
CYTH2	grey
SEC1P	grey
FGF21	yellow
PPP1R15A	yellow
CGB1	grey
SNAR-G1	grey
CD37	blue
DKKL1	grey
RPL13A	grey
SNORD35B	black
RCN3	green
ADM5	grey
ATF5	red
NR1H2	pink
MYBPC2	grey
SNAR-F	grey
ACPT	grey
SIGLEC9	blue
SIGLEC7	grey
SIGLEC17P	grey
SIGLECL1	grey
IGLON5	grey
LOC100129083	grey
MIR99B	grey
MIRLET7E	grey
MIR125A	grey
FPR2	grey
FPR3	blue
ZNF649-AS1	grey
ZNF613	grey
ZNF350-AS1	grey

ZNF766	turquoise
ZNF480	green
ZNF610	grey
ZNF534	grey
ZNF578	grey
ZNF137P	grey
FAM90A27P	grey
ZNF845	grey
ZNF331	yellow
MIR512-2	grey
MIR512-2	grey
MIR1323	grey
MIR520E	grey
MIR520F	grey
MIR520A	grey
MIR520B	grey
MIR518B	grey
MIR520C	grey
MIR518C	grey
MIR524	grey
MIR519D	grey
MIR521-2	grey
MIR520D	grey
MIR517B	black
MIR520G	grey
MIR516B2	grey
MIR518A1	grey
MIR518D	grey
MIR520G	grey
MIR521-1	grey
MIR522	grey
MIR519A1	grey
MIR527	grey
MIR516A1	grey
MIR519A2	grey
MIR371A	grey
MIR373	grey
MYADM	pink
MIR4752	grey
LILRA2	grey
LILRA1	blue
LILRB4	blue
LILRP2	grey
KIR3DL3	grey
KIR2DL3	grey
KIR2DL1	grey
KIR3DL1	grey
KIR2DS4	grey
KIR3DL2	grey
NAT14	grey
SSC5D	grey

ZNF865	grey
ZNF581	grey
CCDC106	pink
EPN1	grey
RFPL4A	grey
RFPL4AL1	magenta
NLRP5	grey
ZNF444	grey
ZNF542P	grey
ZNF667-AS1	grey
ZNF471	grey
ZNF470	grey
ZNF71	grey
ZNF264	brown
ZNF543	grey
ZNF17	turquoise
ZNF773	grey
ZNF549	grey
ZIK1	grey
ZNF530	grey
ZNF134	brown
ZNF211	turquoise
ZNF551	turquoise
ZNF587B	grey
UBE2CP5	black
ZNF135	grey
ZNF544	green
ZNF544	grey
ZNF584	grey
ZNF324B	grey
RPL23AP7	turquoise
WASH5P	turquoise
LOC100134822	turquoise
LINC01002	grey
LOC101928344	turquoise
MIER2	grey
RNF126	grey
ADAMTSL5	grey
ABHD17A	grey
MIR1227	grey
C19orf35	grey
LINGO3	grey
TIMM13	grey
SGTA	grey
LOC101928631	grey
TLE2	grey
SMIM24	grey
DOHH	grey
RAX2	grey
MIR637	grey
SNORD37	black

MAP2K2	green
STAP2	red
SH3GL1	grey
PLIN4	red
LRG1	pink
DPP9	green
PTPRS	green
TINCR	grey
C19orf70	grey
PRR22	grey
FUT6	grey
FUT3	grey
FUT5	grey
ACER1	grey
SLC25A23	green
TUBB4A	grey
TNFSF14	grey
ADGRE4P	blue
FLJ25758	grey
LOC100128573	grey
PCP2	grey
CLEC4G	pink
CD209	brown
LYPLA2P2	grey
RAB11B-AS1	yellow
PRAM1	grey
MYO1F	blue
OR7G2	grey
OR7G1	grey
OR7G3	grey
OR7D4	grey
ZNF699	grey
ZNF266	turquoise
ZNF121	brown
ZNF562	brown
ZNF812P	grey
ZNF846	turquoise
LOC100996288	grey
OLFM2	grey
ANGPTL6	green
S1PR2	green
ICAM3	magenta
AP1M2	grey
SPC24	grey
KANK2	green
ELAVL3	grey
ZNF823	grey
ZNF878	grey
ZNF20	grey
ZNF44	turquoise
ZNF563	green

ZNF443	grey
ZNF709	grey
ZNF564	grey
ZNF490	grey
SNORD41	black
DNASE2	pink
MIR27A	grey
MIR23A	grey
PALM3	green
PRKACA	grey
ASF1B	grey
PTGER1	grey
ADGRE3	yellow
OR7C1	grey
SLC1A6	grey
NOTCH3	grey
WIZ	grey
PGLYRP2	green
CYP4F24P	grey
CYP4F2	grey
CYP4F11	green
EPS15L1	red
NR2F6	green
PLVAP	blue
BST2	blue
NXNL1	grey
IL12RB1	grey
RAB3A	grey
LOC729966	grey
KIAA1683	yellow
JUND	yellow
LRRRC25	blue
COPE	pink
TMEM161A	pink
HAPLN4	red
TM6SF2	red
PBX4	grey
ZNF14	grey
ZNF682	grey
MIR1270	grey
ZNF826P	grey
MIR1270	grey
ZNF737	turquoise
ZNF626	turquoise
ZNF708	grey
ZNF100	turquoise
ZNF43	turquoise
ZNF208	grey
ZNF676	grey
LOC374890	grey
LOC101929144	grey

ZNF724P	grey
IPO5P1	turquoise
ZNF91	grey
ZNF91	turquoise
LINC01224	grey
ZNF675	grey
HAVCR1P1	grey
LOC101927210	grey
TSHZ3	grey
LOC101927277	grey
LOC101927411	grey
LOC400684	grey
RHPN2	yellow
SLC7A10	grey
CEBPA	green
PEPD	red
SCGB2B2	green
LOC101927522	grey
LOC101927522	grey
ATP4A	grey
HSPB6	grey
TYROBP	blue
COX7A1	blue
ZNF565	grey
ZFP14	green
ZNF566	turquoise
ZNF260	brown
ZNF461	turquoise
LINC01534	turquoise
ZNF850	grey
ZNF829	grey
ZNF585A	grey
LOC284412	grey
ZNF571	grey
ZFP30	grey
ZNF781	grey
ZNF607	grey
YIF1B	pink
CAPN12	grey
LGALS7B	grey
LGALS4	red
ECH1	pink
FBXO17	green
FBXO27	green
FBXO27	green
SYCN	grey
GMFG	blue
MIR4530	grey
RPS16	grey
CLC	grey
FCGBP	grey

ZNF780B	turquoise
ZNF780A	turquoise
CNTD2	red
MIR641	grey
BLVRB	grey
C19orf54	pink
CYP2A6	red
CYP2A7	red
CYP2A7P1	grey
TGFB1	blue
EXOSC5	blue
ATP5SL	grey
PCAT19	blue
CEACAM4	grey
ATP1A3	grey
POU2F2	grey
CXCL17	grey
PSG10P	grey
LOC284344	grey
PSG9	grey
ETHE1	pink
XRCC1	pink
PLAUR	yellow
LYPD5	grey
ZNF404	grey
LOC100505715	grey
ZNF45	turquoise
LOC100379224	grey
ZNF235	turquoise
ZNF112	grey
ZNF229	grey
CEACAM20	grey
CEACAM22P	grey
ZNF296	grey
CKM	grey
RTN2	grey
GPR4	grey
EML2	grey
MIR330	grey
MIR642B	grey
NANOS2	grey
IGFL3	grey
PPP5D1	grey
PNMAL2	grey
GNG8	grey
MIR320E	grey
SNAR-C2	grey
TMEM160	grey
MIR3191	grey
TPRX1	grey
LINC01595	grey

SULT2A1	red
CABP5	grey
PLA2G4C	grey
DBP	grey
CA11	grey
RASIP1	grey
IZUMO1	grey
FUT1	grey
BCAT2	grey
HSD17B14	grey
CGB3	grey
SNAR-G2	grey
CGB1	grey
CGB8	grey
CGB7	grey
NTF4	grey
SLC6A16	green
MIR4324	turquoise
TEAD2	grey
MIR150	grey
RRAS	pink
NUP62	pink
SIGLEC11	grey
LOC100287477	grey
SNAR-B2	grey
SNAR-B2	grey
SNAR-D	grey
NAPSB	blue
NAPSA	grey
ASPDH	pink
SHANK1	grey
C19orf48	grey
SNORD88B	black
SNORD88A	black
SNORD88C	black
NKG7	blue
C19orf84	grey
SIGLEC10	blue
SIGLEC8	grey
SIGLEC6	grey
LINC01530	grey
SIGLEC14	blue
SPACA6P-AS	grey
HAS1	grey
FPR1	yellow
ZNF649	grey
ZNF350	turquoise
ZNF615	grey
ZNF614	turquoise
ZNF432	grey
ZNF841	turquoise

ZNF616	grey
ZNF836	grey
ZNF83	turquoise
ZNF600	grey
ZNF468	brown
ZNF320	grey
ZNF702P	grey
ZNF160	grey
ZNF415	grey
ZNF347	grey
MIR371B	grey
TARM1	grey
TMC4	grey
MBOAT7	pink
LILRB3	grey
LILRA6	grey
LILRB5	blue
LILRA3	grey
LILRA5	grey
LILRA4	grey
LAIR1	blue
LENG9	pink
RDH13	grey
TNNT1	grey
PTPRH	yellow
TMEM86B	pink
TMEM150B	grey
TMEM238	pink
UBE2S	grey
FIZ1	black
NLRP11	grey
ZNF787	grey
ZNF582	grey
ZNF667	grey
ZNF772	green
ZNF550	turquoise
ZNF416	grey
ZNF551	grey
ZNF671	grey
ZNF552	grey
FKBP1AP1	grey
ZNF814	turquoise
ZNF417	green
ZNF418	turquoise
ZNF256	grey
ZNF329	grey
ZNF497	grey
ZNF132	turquoise
ZBTB45	grey
UBE2M	grey
MZF1	grey

KIR2DL2	grey
KIR2DL5B	grey
KIR2DS5	grey
KIR2DS1	grey
KIR3DL2	grey
LOC105371312	yellow
HYDIN	grey
LOC101927468	grey
LOC100996637	grey
ALLC	grey
LINC01105	grey
RSAD2	grey
ID2	grey
LOC105373418	grey
TAF1B	brown
GRHL1	grey
KLF11	yellow
RRM2	grey
LOC101929715	grey
PQLC3	blue
GREB1	red
LOC100506405	grey
MIR3681	grey
FAM84A	grey
VSNL1	green
GEN1	green
MSGN1	grey
MIR4757	grey
LOC101928222	grey
RHOB	yellow
NBPF19	yellow
LOC100507562	grey
KLHL29	grey
FKBP1B	grey
FAM228A	grey
DNAJC27-AS1	grey
EFR3B	grey
LOC101929272	grey
HADHB	yellow
EPT1	red
DPYSL5	grey
TMEM214	pink
KHK	green
ABHD1	grey
GTF3C2-AS1	grey
LOC105374363	grey
GCKR	green
C2orf16	grey
MRPL33	grey
MIR4263	grey
FOSL2	yellow

SPDYA	yellow
SNORD92	black
SNORD53	red
FAM179A	grey
CLIP4	blue
LCLAT1	brown
EHD3	blue
SPAST	brown
SLC30A6	brown
YIPF4	brown
MIR558	turquoise
MIR4765	grey
LTBP1	yellow
RASGRP3	brown
CRIM1	blue
NDUFAF7	brown
RMDN2	turquoise
CYP1B1-AS1	grey
GALM	brown
ARHGEF33	grey
LOC388942	grey
LINC01126	grey
PLEKHH2	turquoise
DYNC2LI1	turquoise
ABCG8	green
PPM1B	yellow
SLC3A1	magenta
PRKCE	turquoise
RHOQ	brown
CRIP1	brown
LINC01119	grey
EPCAM	grey
MSH2	turquoise
HCG2040054	grey
MSH6	grey
FOXP2	green
CHAC2	grey
ERLEC1	brown
ACYP2	turquoise
LOC102724063	grey
RPL23AP32	turquoise
PRORS1P	grey
CFAP36	grey
REL	yellow
C2orf74	grey
B3GNT2	red
EHBP1	turquoise
UGP2	green
LOC100507006	grey
LOC339807	grey
LOC440867	grey

LOC440867	grey
LOC729348	grey
LOC102800447	grey
LOC101927661	grey
ETAA1	turquoise
PNO1	brown
PLEK	blue
PROKR1	grey
ARHGAP25	blue
ANTXR1	blue
ANXA4	turquoise
MXD1	grey
MXD1	yellow
ATP6V1B1	grey
OR7E91P	grey
ZNF638-IT1	turquoise
NOTO	grey
ALMS1-IT1	grey
C2orf78	grey
TET3	turquoise
TTC31	green
LBX2-AS1	green
LINC01291	grey
LOC101927884	grey
LOC101927907	grey
REG3G	grey
LOC1720	grey
DNAH6	turquoise
TMSB10	blue
MAT2A	turquoise
GNLY	blue
ATOH8	yellow
ST3GAL5-AS1	grey
SNORD94	black
MRPL35	grey
ANAPC1P1	grey
RGPD1	turquoise
MIR4771-1	grey
IGK	grey
THNSL2	grey
LOC101928403	grey
RPIA	grey
MIR4436A	grey
IGKC	grey
IGKC	blue
IGKC	grey
IGKC	grey
IGKC	grey
IGK	grey
GGT8P	grey
ACTR3BP2	grey

TEKT4	grey
FAHD2CP	grey
ITPRIPL1	grey
LOC100506123	brown
LINC01125	turquoise
CNGA3	grey
LIPT1	turquoise
MRPL30	brown
MRPL30	turquoise
MRPL30	grey
EIF5B	brown
NPAS2	grey
LOC100506286	grey
LINC01127	grey
IL1RL2	grey
IL18R1	yellow
IL18RAP	yellow
MIR4772	grey
TMEM182	grey
POU3F3	grey
GPR45	grey
RGPD4	turquoise
SULT1C3	grey
SULT1C4	blue
GCC2	yellow
CCDC138	turquoise
RGPD6	turquoise
LINC01123	grey
LOC100507334	grey
BCL2L11	grey
MERTK	red
TMEM87B	brown
ZC3H6	magenta
TTL	brown
SLC20A1	yellow
IL36RN	grey
IL1RN	yellow
PAX8-AS1	grey
CBWD1	yellow
FOXD4L1	grey
DDX18	brown
INSIG2	red
MARCO	blue
STEAP3	pink
TMEM37	magenta
CFAP221	grey
PTPN4	turquoise
INHBB	yellow
RNU4ATAC	black
LOC100506922	grey
GPR17	grey

UGGT1	brown
LOC101927881	grey
LOC101927924	grey
RAB6C	grey
MED15P9	grey
CFC1B	grey
CYP4F30P	grey
FAR2P2	grey
GPR148	grey
ARHGEF4	grey
PLEKHB2	yellow
LOC440910	grey
TUBA3D	grey
LOC150776	grey
LOC100507460	grey
LOC101060825	grey
GPR39	green
LOC101928185	grey
ACMSD	magenta
CCNT2	turquoise
LOC100507600	grey
KYNU	turquoise
LOC101928386	grey
PABPC1P2	grey
LOC101929231	turquoise
MIR4773-1	grey
FMNL2	blue
KCNJ3	green
GALNT5	grey
UPP2	red
UPP2	red
PKP4	red
TANK	yellow
LOC100996579	brown
PSMD14	brown
SLC4A10	grey
GCA	brown
LOC101929570	grey
LOC101929633	magenta
SCN2A	grey
CSRNP3	green
XIRP2	grey
CERS6	brown
NOSTRIN	blue
DHRS9	grey
BBS5	brown
KLHL41	grey
SP5	grey
CYBRD1	blue
HAT1	brown
ITGA6	red

PDK1	brown
RAPGEF4	red
ZAK	yellow
LINC01305	grey
HOXD13	grey
HOXD12	grey
HOXD4	grey
HAGLROS	grey
MTX2	brown
AGPS	red
RBM45	turquoise
OSBPL6	green
LOC101927027	brown
TTN-AS1	turquoise
ITGA4	blue
SSFA2	yellow
PPP1R1C	grey
DUSP19	grey
ITGAV	blue
COL3A1	blue
ANKAR	turquoise
PMS1	turquoise
INPP1	yellow
NAB1	turquoise
GLS	blue
NABP1	blue
NABP1	blue
LOC101927431	grey
LOC101927482	grey
CCDC150	turquoise
SNORD2	black
COQ10B	brown
PLCL1	grey
C2orf69	grey
SPATS2L	red
BZW1	yellow
NIF3L1	brown
NDUFB3	grey
CFLAR	brown
CASP8	brown
CDK15	grey
FZD7	grey
SNORD70	black
SNORD11B	black
SNORD11	black
BMPR2	brown
FAM117B	grey
CARF	turquoise
NBEAL1	turquoise
CD28	grey
LOC105373849	grey

SNORD51	brown
ZDBF2	grey
LOC200726	grey
FASTKD2	turquoise
MIR3130-2	grey
CPO	grey
CREB1	turquoise
CCNYL1	turquoise
LOC100507443	grey
PTH2R	grey
MAP2	blue
RPE	turquoise
LOC101928020	turquoise
CPS1-IT1	turquoise
MIR4776-1	grey
MIR4438	grey
VWC2L	grey
DNAPTP3	grey
TMEM169	green
XRCC5	yellow
PKI55	grey
IGFBP2	grey
LOC101928250	grey
LOC101928327	grey
SLC11A1	grey
MIR26B	grey
VIL1	grey
PLCD4	grey
WNT6	grey
LOC100129175	grey
ANKZF1	turquoise
DES	grey
GMPPA	pink
CCDC140	grey
MOGAT1	green
ACSL3	red
KCNE4	grey
AGFG1	red
CCL20	grey
ITM2C	grey
LOC151484	grey
SPATA3	grey
C2orf72	green
C2orf57	grey
ALPPL2	grey
ALPI	grey
CHRNA5	grey
EFHD1	grey
INPP5D	blue
SCARNA5	black
SCARNA6	black

SAG	grey
UGT1A1	yellow
MROH2A	grey
TRPM8	green
SPP2	magenta
SH3BP4	yellow
AGAP1-IT1	turquoise
ACKR3	grey
PRLH	grey
LRRFIP1	yellow
RAMP1	grey
ESPNL	grey
MIR4269	grey
LOC401040	grey
LOC150935	grey
CAPN10	grey
LOC285191	grey
AGXT	red
BOK	green
LOC101927187	green
D2HGDH	grey
GAL3ST2	grey
RTP5	grey
LOC102723927	turquoise
LOC728323	turquoise
FAM110C	yellow
LINC01115	grey
RPS7	grey
LINC00487	grey
CMPK2	blue
RNF144A-AS1	grey
LINC00298	red
LINC00299	red
ID2-AS1	yellow
LOC400943	grey
CYS1	grey
MIR4261	grey
ODC1	brown
SNORA80B	grey
PDIA6	red
FLJ33534	grey
MIR4429	grey
FAM49A	blue
SMC6	turquoise
LINC01376	grey
WDR35	turquoise
MATN3	grey
HS1BP3-IT1	yellow
LDAH	brown
LOC645949	grey
LOC102723389	yellow

TP53I3	grey
LOC100507630	grey
MIR1301	grey
LOC100131510	grey
HADHA	brown
ADGRF3	grey
UCN	grey
FTH1P3	grey
FNDC4	grey
LOC100505716	grey
FLJ31356	grey
LOC100505774	grey
TRMT61B	brown
C2orf71	grey
CAPN13	red
SRD5A2	magenta
NLRC4	blue
FAM98A	brown
MYADML	grey
EIF2AK2	brown
PRKD3	turquoise
CDC42EP3	grey
LINC00211	grey
CYP1B1	red
HNRNPLL	yellow
SRSF7	turquoise
SLC8A1	blue
OXER1	green
HAAO	green
ZFP36L2	blue
ABCG5	turquoise
LOC100130502	grey
LINC01121	grey
ATP6V1E2	grey
C2orf61	grey
C2orf61	grey
KCNK12	grey
GPR75-ASB3	yellow
PSME4	yellow
TSPYL6	grey
PPP4R3B	brown
PNPT1	brown
EFEMP1	grey
LOC100129434	grey
FANCL	turquoise
LINC01185	grey
PUS10	turquoise
LOC339803	brown
SNORA70B	turquoise
CCT4	brown
TMEM17	grey

VPS54	turquoise
PEL1	yellow
LOC105374768	grey
RAB1A	brown
SPRED2	grey
MIR4778	grey
LOC101927577	grey
FBXO48	brown
BMP10	brown
GFPT1	brown
SNORA36C	grey
LOC100133985	grey
TIA1	turquoise
ADD2	grey
CD207	grey
PAIP2B	brown
EXOC6B	brown
SFXN5	green
EGR4	grey
NAT8	green
NAT8B	grey
BOLA3	blue
LBX2	grey
GCFC2	green
SNAR-H	grey
LOC101927987	grey
LRRTM1	grey
PARTICL	grey
ST3GAL5	green
LOC90784	grey
REEP1	grey
LOC285074	grey
LOC101928173	grey
KRCC1	grey
MIR4780	grey
FABP1	red
LOC101928347	red
EIF2AK3	brown
LOC102724805	green
IGKC	grey
IGK	blue
IGKC	blue
IGKC	blue
IGKC	grey
IGKC	grey
IGK	grey
IGKC	grey
IGKC	grey
IGKC	grey
LOC654342	grey
LOC100506191	grey

FAM95A	grey
ANKRD20A8P	grey
LOC442028	grey
ZNF514	turquoise
TRIM43B	grey
LINC00342	grey
ADRA2B	grey
TMEM127	pink
LOC105373495	grey
LOC100506036	green
ANKRD36B	grey
ACTR1B	pink
COA5	turquoise
MGAT4A	red
LOC101927070	grey
TXNDC9	grey
REV1	turquoise
LONRF2	grey
LOC101927142	grey
TBC1D8	yellow
RNF149	yellow
MFSD9	brown
LOC101927331	grey
LINC01158	grey
FHL2	grey
LOC285000	grey
ST6GAL2	grey
GCC2-AS1	magenta
SH3RF3-AS1	grey
MIR4266	grey
MIR4267	grey
MALL	grey
LINC00116	grey
LINC01106	grey
BUB1	grey
ANAPC1	turquoise
MIR4771-1	grey
ZC3H8	turquoise
RGPD6	turquoise
CKAP2L	grey
IL1B	grey
PGM5P4-AS1	grey
DDX11L2	grey
LOC100506797	grey
EN1	grey
C1QL2	grey
STEAP3-AS1	grey
SCTR	grey
TFCP2L1	grey
NIFK	brown
CYP27C1	grey

MAP3K2	brown
MIR4783	grey
LOC105373609	grey
AMMECR1L	grey
SAP130	pink
HS6ST1	red
LOC151121	grey
LOC389033	grey
RAB6C-AS1	grey
FAR2P1	grey
TUBA3E	grey
FAR2P2	grey
POTEI	grey
LOC646743	grey
LOC101928067	grey
MIR663B	grey
LYPD1	grey
NCKAP5	red
CCNT2-AS1	grey
MCM6	blue
CXCR4	yellow
LRP1B	grey
GTDC1	brown
MMADHC	yellow
RND3	yellow
RBM43	green
NMI	blue
MIR4773-2	grey
NEB	grey
RPRM	grey
LOC101929378	turquoise
NR4A2	yellow
ERMN	grey
FAM133DP	grey
CYTIP	blue
ACVR1C	green
ACVR1	turquoise
PLA2R1	grey
RBMS1	grey
DPP4	grey
IFIH1	blue
FIGN	green
GRB14	turquoise
COBLL1	magenta
SNORA70F	turquoise
SLC38A11	turquoise
GALNT3	turquoise
LOC100506124	turquoise
TTC21B	turquoise
TTC21B	turquoise
SCN9A	magenta

SCN7A	grey
LOC102724081	grey
CERS6-AS1	grey
ABCB11	magenta
LRP2	grey
FASTKD1	turquoise
SLC25A12	grey
CIR1	brown
GPR155	red
MIR933	grey
KIAA1715	brown
MIR1246	grey
NFE2L2	yellow
TTC30B	grey
TTC30A	brown
PDE11A	red
PRKRA	turquoise
FKBP7	magenta
CCDC141	grey
SESTD1	turquoise
ZNF385B	magenta
MIR1258	grey
NEUROD1	grey
FRZB	blue
NCKAP1	brown
LINC01473	turquoise
CALCRL	blue
TFPI	magenta
COL5A2	grey
SLC40A1	brown
OSGEPL1	brown
ORMDL1	turquoise
MSTN	grey
HIBCH	turquoise
STAT1	blue
STAT4	magenta
SDPR	blue
STK17B	blue
HECW2	blue
PGAP1	brown
ANKRD44	brown
ANKRD44-IT1	yellow
RFTN2	blue
TYW5	turquoise
LOC100507140	grey
CLK1	yellow
PPIL3	grey
ORC2	magenta
FAM126B	magenta
TMEM237	grey
LOC729224	grey

ABI2	grey
RAPH1	turquoise
GCSHP3	brown
DYTN	grey
MIR3130-1	grey
KLF7	blue
MIR2355	grey
PLEKHM3	red
CRYGC	grey
CRYGB	grey
KANSL1L	magenta
ACADL	magenta
MYL1	grey
MIR548F2	grey
MIR4776-2	grey
LINC00607	grey
MREG	green
PECR	turquoise
LOC100507554	grey
IGFBP5	pink
TNP1	grey
TNS1	green
CXCR2P1	blue
CXCR1	grey
USP37	turquoise
PRKAG3	grey
LINC01494	grey
MIR375	grey
IHH	grey
NHEJ1	green
SLC23A3	grey
CNPPD1	pink
ABCB6	grey
ATG9A	grey
GLB1L	grey
CHPF	grey
MIR3132	grey
MIR4268	grey
EPHA4	grey
AP1S3	grey
FAM124B	green
DOCK10	blue
IRS1	magenta
COL4A4	grey
LOC729968	grey
SLC19A3	red
PID1	yellow
SLC16A14	grey
LOC151475	grey
HTR2B	blue
SNORA75	black

SNORD20	black
SNORD82	black
MIR1471	grey
ECEL1P2	grey
DNAJB3	grey
LOC100286922	grey
MSL3P1	grey
ARL4C	yellow
LOC101927896	grey
RAB17	grey
PER2	green
ASB1	grey
MIR4441	turquoise
MGC16025	grey
OR6B2	grey
OR6B3	grey
OTOS	grey
C2orf54	grey
LOC728208	green
DTYMK	grey
LOC728323	green
DEFB126	grey
DEFB132	grey
NRSN2	grey
TRIB3	grey
PSMF1	grey
SNPH	grey
SIRPG-AS1	grey
EBF4	grey
C20orf141	grey
OXT	grey
CDC25B	red
LOC101929125	grey
MIR103A2	grey
CHGB	grey
MCM8	brown
BMP2	yellow
LOC105372520	grey
PLCB1	brown
LOC100128668	turquoise
RNU105B	grey
ANKEF1	brown
SNAP25	grey
BTBD3	brown
SPTLC3	brown
ISM1	green
NDUFAF5	grey
SNRPB2	blue
MGME1	brown
MIR3192	grey
SEC23B	brown

LINC00493	grey
RIN2	grey
XRN2	brown
LOC101929625	grey
SSTR4	grey
SYNDIG1	grey
CST7	blue
GIN51	grey
ZNF337-AS1	turquoise
LOC100134868	grey
DEFB115	grey
LINC00028	grey
MCTS2P	brown
ID1	grey
MIR3193	grey
COX4I2	grey
TPX2	red
TTLL9	grey
XKR7	grey
MAPRE1	blue
BPIFA2	grey
C20orf144	grey
MIR4755	grey
ASIP	grey
MIR644A	turquoise
TP53INP2	pink
ACSS2	red
MIR499A	grey
MMP24	grey
FAM83C-AS1	grey
EPB41L1	grey
MYL9	pink
TLDC2	grey
MANBAL	brown
NNAT	grey
BPI	grey
LBP	red
SNORA60	black
MIR548O2	turquoise
FAM83D	grey
DHX35	turquoise
LINC01370	grey
PLCG1	grey
LPIN3	grey
LOC101927159	grey
LOC101927138	grey
SGK2	turquoise
LOC101927200	grey
HNF4A	green
MIR3646	grey
TTPAL	green

PABPC1L	turquoise
PI3	grey
SEMG2	grey
RBPJL	grey
PIGT	pink
LOC100130157	grey
SPINT4	grey
ZSWIM3	grey
ZSWIM1	pink
MMP9	grey
SLC12A5	grey
CD40	brown
SLC2A10	red
EYA2	grey
LOC105372637	grey
LOC105372645	grey
CSE1L	brown
SNORD12C	black
SNORD12B	black
SNORD12	black
SNAI1	grey
CEBPB	yellow
LINC01270	red
MIR645	grey
PARD6B	green
MOCS3	brown
TSHZ2	yellow
LOC101927770	grey
PFDN4	blue
DOK5	grey
MC3R	grey
FAM210B	brown
FAM209A	grey
FAM209B	grey
RBM38	grey
PCK1	grey
MIR4532	grey
FAM217B	grey
MIR646HG	grey
MIR548AG2	grey
SLCO4A1	grey
OGFR	red
COL9A3	grey
DPH3P1	grey
HAR1A	grey
FLJ16779	grey
MIR4326	grey
LOC100130587	grey
PPDPF	pink
ZGPAT	green
ZGPAT	grey

LIME1	grey
SLC2A4RG	green
ABHD16B	grey
TPD52L2	brown
TCEA2	grey
TCEA2	grey
OPRL1	grey
PCMTD2	grey
C20orf96	green
SCRT2	grey
TMEM74B	grey
SIRPD	grey
SIRPB1	grey
LOC100289473	grey
SNORD119	black
CPXM1	grey
AVP	grey
SIGLEC1	blue
MIR103B2	grey
RNF24	grey
RASSF2	yellow
SLC23A2	grey
LINC00658	grey
LINC00654	grey
GPCPD1	yellow
MCM8-AS1	grey
LRRN4	grey
MKKS	green
JAG1	blue
LOC102606466	grey
ESF1	brown
FLRT3	grey
KIF16B	grey
SNORD17	black
OVOL2	grey
RBBP9	brown
LOC101929526	grey
KIZ-AS1	grey
LOC101929608	grey
LINC00261	yellow
FOXA2	grey
LOC101929707	grey
THBD	yellow
CD93	blue
NAPB	turquoise
CST3	grey
CST2	grey
APMAP	red
ACSS1	grey
VSX1	grey
NINL	green

MLLT10P1	grey
DEFB116	grey
DEFB122	grey
HM13-AS1	grey
SUN5	grey
PXMP4	pink
RALY-AS1	grey
AHCY	grey
NCOA6	grey
HMGB3P1	grey
MIR499B	grey
EDEM2	turquoise
MMP24-AS1	pink
NORAD	turquoise
LOC100130373	grey
SLA2	grey
NDRG3	blue
SAMHD1	blue
RBL1	brown
GHRH	grey
TGM2	red
SNORA71B	black
SNORA71A	black
SNORA71C	black
SNORA71D	black
GTSF1L	grey
OSER1	yellow
HNF4A-AS1	green
LINC01430	yellow
LINC01620	grey
TOMM34	pink
WFDC12	grey
LOC101929863	grey
SLPI	blue
MATN4	grey
SDC4	yellow
TP53TG5	grey
WFDC10B	grey
WFDC3	grey
TNNC2	grey
SPATA25	green
NEURL2	green
PLTP	blue
CDH22	grey
ELMO2	red
MKRN7P	grey
ZNF334	turquoise
SLC13A3	red
SULF2	grey
PREX1	blue
CSE1L-AS1	grey

KCNB1	grey
PTGIS	pink
B4GALT5	brown
SPATA2	brown
TRERNA1	grey
MIR1302-5	grey
NFATC2	pink
ATP9A	blue
LOC728805	grey
ZNF217	grey
CBLN4	grey
MTRNR2L3	grey
LOC100291105	grey
MIR296	grey
MIR298	grey
LOC100506384	grey
LAMA5	grey
FLJ32154	grey
LINC00659	grey
BHLHE23	grey
HAR1B	grey
NKAIN4	grey
LOC102723788	grey
KCNQ2	grey
EEF1A2	grey
PTK6	grey
SOX18	grey
RGS19	blue
LKAAEAR1	grey
LOC101930100	turquoise
LOC644450	turquoise
ANKRD30BP2	grey
POTED	grey
MIR99AHG	magenta
MIRLET7C	magenta
MIR125B2	grey
NCAM2	magenta
LINC00308	grey
CYYR1-AS1	grey
LOC105372761	grey
MAP3K7CL	grey
LINC00189	turquoise
BACH1	grey
BACH1	turquoise
BACH1-IT2	turquoise
BACH1	grey
GRIK1-AS1	grey
KRTAP13-1	grey
KRTAP15-1	grey
KRTAP6-3	grey
KRTAP20-1	grey

KRTAP20-2	grey
KRTAP20-3	grey
LOC150051	grey
HUNK	grey
PAXBP1-AS1	green
C21orf62-AS1	grey
OLIG2	grey
IFNAR1	brown
LINC00649	green
CLIC6	grey
LINC01426	grey
MIR802	grey
LINC01436	grey
CBR1	red
LOC105369306	grey
DOPEY2	grey
MORC3	turquoise
MORC3	turquoise
MORC3	turquoise
TTC3	turquoise
KCNJ15	blue
ETS2	yellow
WRB	brown
SH3BGR	grey
BACE2	blue
MX2	blue
MX1	blue
LINC00111	grey
LINC00112	grey
ABCG1	grey
CRYAA	green
LINC00319	grey
LOC102723380	grey
C21orf2	grey
LRR3	green
LOC100505727	grey
KRTAP10-4	grey
KRTAP10-8	grey
KRTAP10-9	grey
KRTAP10-11	grey
KRTAP12-3	grey
COL18A1	grey
LOC105372840	grey
DIP2A-IT1	grey
LOC101927429	turquoise
MIR3156-2	grey
ANKRD20A11P	grey
HSPA13	brown
BTG3	yellow
C21orf91	yellow
MIR548XHG	grey

LINC00320	grey
LOC101927843	magenta
LINC00515	grey
MRPL39	grey
CYYR1	blue
ADAMTS1	yellow
ADAMTS5	grey
LOC101927973	grey
LOC102724420	grey
RWDD2B	brown
KRTAP27-1	grey
MIR4327	grey
KRTAP19-2	grey
KRTAP6-2	grey
KRTAP6-1	grey
KRTAP21-1	grey
KRTAP7-1	grey
LOC102724449	green
MIS18A	grey
SNORA80A	black
TCP10L	green
PAXBP1	turquoise
C21orf62	grey
TMEM50B	brown
DNAJC28	green
GART	brown
DONSON	brown
C21orf140	grey
KCNE1	red
RCAN1	yellow
LINC00160	grey
RUNX1-IT1	blue
LOC100133286	grey
CBR3-AS1	grey
TMPRSS3	grey
KCNJ6	grey
LINC00114	grey
LOC400867	grey
PSMG1	brown
TMPRSS2	yellow
RIPK4	yellow
ZBTB21	yellow
TFF2	grey
ERVH48-1	grey
CBS	green
TCONS_00029157	grey
SIK1	yellow
HSF2BP	grey
CSTB	pink
AATBC	grey
DNMT3L	grey

KRTAP10-1	grey
KRTAP10-2	grey
KRTAP10-3	grey
KRTAP10-5	grey
KRTAP12-2	grey
PTTG1IP	blue
LINC00162	grey
COL18A1-AS2	green
FTCD	green
LSS	red
S100B	grey
HSFY1P1	grey
CECR7	grey
CECR9	grey
CECR2	turquoise
SLC25A18	magenta
BCL2L13	brown
LINC00528	grey
FLJ41941	grey
TUBA8	grey
USP18	grey
POM121L8P	grey
DGCR6	grey
DGCR9	grey
DGCR11	grey
MRPL40	brown
DGCR8	turquoise
POM121L4P	grey
LOC101928891	grey
AIFM3	grey
THAP7-AS1	grey
BCRP2	grey
POM121L8P	grey
HIC2	grey
SDF2L1	grey
MIR301B	grey
MIR130B	grey
IGLC1	grey
BMS1P20	green
IGLC1	grey
IGLC1	blue
LL22NC03-63E9.3	grey
GGTLC2	green
IGLL5	grey
IGKV@	blue
CKAP2	grey
IGLC1	grey
IGLC1	grey
IGLL5	grey
IGHG1	grey
IGLC1	grey

LOC101929374	grey
MIF	grey
DDTL	grey
GSTT2	grey
LOC391322	grey
POM121L9P	grey
UPB1	green
SNRPD3	brown
BCRP3	green
IGLL3P	grey
CRYBB2P1	grey
LOC105372966	turquoise
ADRBK2	blue
ASPHD2	grey
LOC100507599	grey
LINC01422	turquoise
LOC100507657	grey
ZNRF3	green
RFPL1	grey
NEFH	grey
CABP7	grey
HORMAD2	magenta
SEC14L2	green
MORC2-AS1	grey
RNF185	pink
PIK3IP1-AS1	grey
YWHAH	blue
TIMP3	blue
LARGE-AS1	grey
ISX	grey
MIR3909	grey
HMOX1	blue
MCM5	blue
APOL6	green
APOL5	grey
MPST	grey
CDC42EP1	grey
LGALS1	grey
TRIOBP	blue
GCAT	green
GALR3	grey
MIR4534	grey
LOC101927183	green
KDEL3	blue
APOBEC3C	blue
APOBEC3D	grey
APOBEC3G	blue
LOC100506472	grey
TAB1	grey
FAM83F	grey
LOC100130899	grey

RBX1	brown
TEF	grey
ACO2	pink
CCDC134	green
SREBF2	red
LINC00634	grey
NDUFA6-AS1	green
CYP2D6	grey
SERHL	grey
RNU12	grey
LOC100506679	grey
MPPED1	red
PNPLA3	red
SAMM50	brown
LOC101927499	grey
UPK3A	grey
FAM118A	grey
LOC730668	grey
PRR34-AS1	grey
PPARA	green
LOC284926	grey
GRAMD4	grey
MIR4535	grey
FLJ44385	grey
ALG12	grey
MOV10L1	grey
PANX2	grey
KLHDC7B	grey
RPL23AP82	grey
POTEH	grey
OR11H1	grey
CCT8L2	grey
CECR1	blue
LOC101929372	grey
MIR3198-1	grey
MIR648	grey
GGT3P	green
PRODH	grey
MIR1286	grey
GGT3P	grey
PI4KA	grey
TUBA3FP	grey
P2RX6P	grey
GGT2	grey
FAM230C	grey
PI4KA	grey
RIMBP3C	grey
PRAMENP	grey
CES5AP1	grey
IGLL1	grey
GUSBP11	grey

MIF-AS1	green
GSTT2	grey
DDT	grey
GSTTP1	grey
GSTT1	grey
GSTTP2	grey
LOC100652894	grey
ADORA2A-AS1	green
GUCD1	grey
POM121L10P	grey
LOC100128531	grey
LRP5L	turquoise
LOC100996404	grey
MIR548J	green
CRYBB1	grey
LOC284898	grey
PITPNB	yellow
CHEK2	grey
SNORD125	grey
RFPL1S	grey
RFPL1S	grey
ZMAT5	pink
HORMAD2-AS1	magenta
SEC14L3	green
SDC4P	grey
SEC14L4	green
DUSP18	grey
RNF185-AS1	grey
PIK3IP1	blue
RFPL2	grey
RFPL3S	grey
SYN3	grey
MB	grey
APOL3	green
APOL4	grey
APOL2	red
PVALB	grey
TST	red
TMPRSS6	green
SSTR3	grey
LOC100506271	grey
MIR659	grey
LOC400927-CSNK1E	grey
LOC400927-CSNK1E	black
KCNJ4	grey
FAM227A	grey
JOSD1	yellow
SUN2	grey
DNAL4	grey
CBX6	grey
SNORD83A	black

TOB2	grey
MIR378I	grey
TNFRSF13C	grey
LOC101929829	grey
CYP2D6	green
CYP2D7	green
NFAM1	blue
ATP5L2	grey
MCAT	brown
SCUBE1	grey
MIR1249	grey
LINC00899	grey
BRD1	turquoise
MAPK12	grey
ARSA	pink
CHL1	grey
BHLHE40	grey
ARL8B	brown
EDEM1	brown
LINC00312	grey
LOC101927416	grey
CPNE9	grey
OGG1	green
IL17RE	grey
BRK1	blue
IRAK2	grey
LINC00852	green
GHRLOS	turquoise
SLC6A1	green
PPARG	turquoise
HDAC11	grey
LINC00620	grey
LSM3	pink
SH3BP5-AS1	turquoise
BTD	green
GALNT15	grey
OXNAD1	magenta
SGOL1-AS1	grey
LOC101927829	grey
VENTXP7	grey
NR1D2	grey
THRB-AS1	grey
RARB	brown
CMC1	turquoise
TGFBR2	blue
CMTM7	blue
CRTAP	blue
PDCD6IP	brown
ARPP21	grey
MIR128-2	grey
MLH1	brown

C3orf35	turquoise
MYD88	pink
XYLB	green
WDR48	brown
CCR8	grey
MYRIP	grey
EIF1B	grey
VIPR1	green
SS18L2	blue
NKTR	turquoise
ACKR2	red
FAM198A	grey
SNRK	yellow
ABHD5	red
MIR138-1	grey
TCAIM	brown
LOC100506319	grey
ZKSCAN7	green
ZNF502	grey
ZNF501	grey
SACM1L	brown
RTP3	green
LOC100132146	grey
TMIE	grey
MIR1226	grey
ZNF589	grey
TREX1	pink
CELSR3-AS1	grey
PRKAR2A-AS1	grey
STGC3	grey
DAG1	pink
BSN	grey
GNAT1	grey
SLC38A3	pink
CYB561D2	grey
CYB561D2	grey
MANF	red
RAD54L2	magenta
ALAS1	yellow
GLYCTK	green
DNAH1	turquoise
GNL3	yellow
SNORD19	yellow
SNORD69	black
ITIH3	grey
ITIH4-AS1	grey
CACNA1D	turquoise
IL17RB	grey
CCDC66	turquoise
SPATA12	grey
APPL1	brown

PDE12	brown
LOC101929159	grey
ABHD6	red
RPP14	turquoise
PXK	blue
KCTD6	green
PTPRG	turquoise
LINC00698	grey
PSMD6-AS2	green
ADAMTS9-AS2	grey
SUCLG2-AS1	magenta
ARL6IP5	brown
LINC00870	red
GXYLT2	grey
EBLN2	turquoise
PDZRN3-AS1	grey
LOC101927346	grey
LINC00960	grey
LINC00506	grey
CHMP2B	blue
ZNF654	turquoise
ZNF654	turquoise
EPHA3	blue
ARL13B	brown
ST3GAL6	yellow
TBC1D23	brown
NIT2	magenta
LNP1	magenta
TMEM45A	magenta
ADGRG7	magenta
PDCL3P4	grey
NXPE3	brown
NFKBIZ	grey
ZPLD1	grey
ALCAM	red
DZIP3	turquoise
FLJ22763	turquoise
LINC01205	grey
CD96	blue
ABHD10	grey
CD200	grey
SLC35A5	brown
GTPBP8	brown
BOC	grey
MIR4446	grey
GRAMD1C	magenta
LOC101929754	grey
LSAMP-AS1	grey
ARHGAP31	blue
POGLUT1	brown
PLA1A	grey

MAATS1	grey
NR1I2	magenta
ARGFX	grey
FBXO40	grey
EAF2	grey
CD86	blue
CSTA	grey
FAM162A	green
PARP15	grey
PARP14	turquoise
LOC100129550	brown
MIR544B	turquoise
FAM86JP	grey
CHST13	grey
NUP210P1	grey
PLXNA1	pink
PODXL2	grey
RUVBL1-AS1	grey
ALG1L2	grey
COL6A6	grey
NUDT16	green
SRPRB	brown
EPHB1	red
PPP2R3A	grey
NCK1	brown
IL20RB	grey
ARMC8	turquoise
MRAS	grey
BPESC1	grey
ZBTB38	grey
RASA2	brown
GRK7	grey
ATP1B3	yellow
PLS1	brown
LOC100507389	magenta
PAQR9-AS1	grey
C3orf58	yellow
ZIC1	green
AGTR1	magenta
CPA3	grey
GYG1	blue
LOC101927942	yellow
TM4SF4	brown
TSC22D2	yellow
EIF2A	brown
ERICH6-AS1	grey
CLRN1-AS1	grey
AADACP1	turquoise
SUCNR1	blue
P2RY1	blue
C3orf79	grey

ARHGEF26	yellow
MME	magenta
PLCH1-AS1	grey
KCNAB1	blue
LEKR1	grey
MLF1	grey
MIR16-2	grey
PPM1L	yellow
OTOL1	grey
SERPINI1	red
EGFEM1P	grey
MIR551B	grey
MYNN	brown
SKIL	turquoise
LOC101928583	grey
FNDC3B	red
NAALADL2	turquoise
MIR4789	grey
LINC00501	grey
KCCAT211	grey
PIK3CA	yellow
NDUFB5	brown
USP13	yellow
B3GNT5	red
LINC00888	grey
LINC00888	grey
KLHL6-AS1	grey
KLHL24	yellow
ABCC5-AS1	grey
HTR3D	grey
HTR3E	grey
MIR1224	grey
SNORD66	black
CHRD	turquoise
EPHB3	grey
MAP3K13	green
IGF2BP2-AS1	grey
DNAJB11	red
FETUB	red
ADIPOQ	grey
RTP4	grey
FLJ42393	yellow
MIR28	grey
TPRG1	turquoise
P3H2-AS1	grey
CLDN16	brown
IL1RAP	magenta
IL1RAP	yellow
PYDC2	grey
MGC2889	grey
ATP13A5-AS1	grey

HES1	yellow
LOC101929337	red
LINC00884	green
TMEM44-AS1	grey
XXYLT1-AS2	grey
MUC20	green
SDHAP2	green
LINC00969	turquoise
MIR570	turquoise
LINC00969	turquoise
LINC00969	turquoise
LINC00969	turquoise
TNK2-AS1	grey
LINC00885	green
PAK2	brown
SENP5	brown
MFI2-AS1	grey
LMLN	turquoise
FAM157A	grey
ITPR1-AS1	grey
EGOT	grey
SSUH2	grey
CIDEC	grey
PRRT3	grey
CIDECP	grey
ATP2B2	green
MIR885	grey
LINC00606	grey
SLC6A1-AS1	grey
TAMM41	turquoise
RPL32	grey
IQSEC1	green
GRIP2	grey
LOC102725086	green
MIR5482	green
COL6A4P1	grey
SH3BP5	yellow
METTL6	grey
COLQ	grey
DPH3	grey
RFTN1	green
DAZL	grey
SGOL1	grey
ZNF385D	grey
LINC00691	grey
LOC105376997	grey
MIR4442	grey
NEK10	grey
SLC4A7	yellow
EOMES	blue
LOC100652807	grey

CMTM6	brown
TRANK1	brown
SCN11A	grey
CSRNP1	yellow
CX3CR1	grey
EIF1B-AS1	grey
ENTPD3-AS1	grey
ULK4	turquoise
LYZL4	grey
CCDC13	grey
CYP8B1	red
ANO10	red
LOC102724231	grey
ZNF197-AS1	grey
KIAA1143	blue
LARS2-AS1	grey
LIMD1-AS1	green
CCR1	blue
LOC102724297	grey
LTF	grey
PRSS50	grey
MYL3	grey
SNORD13P3	grey
LOC100133032	turquoise
ARIH2OS	grey
MIR425	grey
MIR191	grey
LAMB2P1	grey
GMPPB	grey
RBM5-AS1	grey
SEMA3B-AS1	grey
CISH	yellow
DUSP7	pink
MIRLET7G	grey
TNNC1	grey
NEK4	turquoise
CHDH	grey
SELK	grey
WNT5A	green
FAM208A	brown
ARF4	brown
DENND6A	brown
ACOX2	green
C3orf67	grey
LINC00994	grey
PRICKLE2	blue
ADAMTS9	brown
LOC100508226	turquoise
LRIG1	red
EOGT	brown
MIR3136	turquoise

FOXP1	yellow
MIR1284	yellow
FOXP1-IT1	turquoise
EIF4E3	red
PROK2	grey
RYBP	yellow
CNTN3	turquoise
FAM86DP	grey
LOC285300	grey
GBE1	brown
CADM2-AS1	grey
LOC101929320	grey
CLDND1	yellow
FILIP1L	yellow
ABI3BP	blue
SENP7	turquoise
MIR548AB	grey
CBLB	yellow
LOC101929579	grey
CD47	brown
MORC1	grey
GCSAM	grey
CCDC80	grey
CD200R1	blue
CFAP44	turquoise
SPICE1	turquoise
CCDC191	turquoise
ZNF80	grey
ZBTB20	brown
MIR4796	yellow
TMEM39A	brown
CD80	grey
LRRC58	brown
HGD	yellow
RABL3	brown
POLQ	grey
HCLS1	blue
WDR5B	brown
PARP9	blue
HSPBAP1	brown
HACD2	green
CCDC14	turquoise
HEG1	blue
SLC12A8	grey
SNX4	brown
OSBPL11	yellow
MIR54811	grey
LOC101927056	turquoise
ALG1L	grey
ALDH1L1	magenta
KLF15	yellow

UROC1	green
LOC101927123	grey
MGLL	red
GATA2	grey
LOC653712	grey
RPL32P3	turquoise
SNORA7B	black
EFCAB12	grey
MBD4	red
FAM86HP	grey
PIK3R4	turquoise
ASTE1	green
LOC339874	magenta
NCK1-AS1	turquoise
CEP70	turquoise
PIK3CB	brown
LINC01391	grey
PRR23A	grey
PRR23B	grey
GK5	yellow
ATR	turquoise
PCOLCE2	magenta
PAQR9	grey
SLC9A9	blue
PLOD2	brown
PLSCR4	magenta
PLSCR1	yellow
HLTF	brown
CP	red
TM4SF18	blue
TM4SF1	blue
COMMD2	brown
ANKUB1	turquoise
PFN2	red
LOC101928105	red
SIAH2	yellow
FAM188B2	grey
GPR171	blue
P2RY13	blue
P2RY12	blue
IGSF10	grey
AADA2L2-AS1	grey
TMEM14EP	grey
ARHGEF26-AS1	magenta
DHX36	yellow
GPR149	grey
LOC100507537	grey
SLC33A1	brown
KCNAB1-AS2	grey
SSR3	brown
LINC00886	grey

PA2G4P4	yellow
CCNL1	yellow
IFT80	turquoise
SCARNA7	black
MIR1263	grey
SLITRK3	grey
BCHE	magenta
TERC	black
LRR31	yellow
SLC7A14	grey
RPL22L1	yellow
EIF5A2	grey
TNIK	grey
PLD1	brown
TNFSF10	green
ZMAT3	grey
GNB4	blue
PEX5L	grey
KLHL6	yellow
ALG3	pink
THPO	pink
THPO	grey
C3orf70	grey
IGF2BP2	grey
ETV5	blue
DGKG	grey
CRYGS	turquoise
RFC4	brown
RPL39L	grey
LOC101929106	grey
BCL6	grey
TPRG1-AS1	green
TPRG1-AS2	grey
P3H2	blue
CLDN1	brown
GMNC	yellow
LOC105374285	grey
DPPA2P3	grey
LOC285389	red
LRR315	grey
TMEM44	grey
MIR3137	grey
PPP1R2	brown
APOD	grey
LOC101929697	grey
SDHAP1	turquoise
TFRC	yellow
TM4SF19	grey
SMCO1	grey
PIGZ	green
LOC220729	turquoise

LMLN-AS1	grey
ANKRD18DP	grey
ZNF718	turquoise
ZNF876P	grey
ZNF141	turquoise
MIR571	turquoise
IDUA	grey
FLJ35816	grey
CTBP1-AS	grey
CRIPAK	turquoise
FGFR3	green
SCARNA22	black
C4orf48	grey
SH3BP2	green
MSANTD1	grey
HGFAC	grey
LINC00955	grey
LOC101928306	grey
STK32B	grey
EVC	grey
WFS1	red
LOC93622	grey
S100P	grey
KIAA0232	turquoise
SORCS2	pink
MIR4798	grey
MIR4274	grey
AFAP1-AS1	grey
LOC389199	grey
USP17L15	grey
USP17L5	grey
DEFB131	grey
RNPS1	grey
LINC01182	grey
CPEB2	red
FAM200B	turquoise
BST1	grey
CD38	blue
TAPT1-AS1	turquoise
TAPT1-AS1	turquoise
NCAPG	grey
PACRGL	turquoise
GBA3	brown
SEPSECS-AS1	green
ANAPC4	turquoise
STIM2	red
PCDH7	grey
LOC102723828	grey
LOC102723846	grey
LOC100508631	grey
C4orf19	green

PGM2	yellow
MIR574	grey
WDR19	turquoise
KLB	brown
LIAS	brown
LOC401127	grey
UGDH-AS1	grey
LOC105374419	green
LOC105374419	magenta
N4BP2	turquoise
NSUN7	grey
DCAF4L1	grey
SLC30A9	brown
GUF1	brown
ATP10D	grey
NIPAL1	brown
CWH43	grey
SPATA18	red
USP46-AS1	grey
SNORA26	black
PDGFRA	blue
KIT	blue
SRD5A3	blue
TMEM165	brown
PAICS	brown
SRP72	brown
ARL9	grey
REST	brown
LOC102724598	grey
MIR1269A	grey
CSN1S1	grey
PRR27	grey
SMR3A	grey
OPRPN	grey
AMBN	grey
MOB1B	brown
SLC4A4	red
AFP	grey
LOC728040	green
CXCL8	yellow
CXCL6	grey
MTHFD2L	brown
PARM1	grey
C4orf26	grey
MIR4450	green
SEPT11	brown
CXCL13	grey
ANXA3	blue
FGF5	grey
BMP3	grey
THAP9	yellow

GPAT3	yellow
WDFY3-AS2	grey
MIR4451	grey
NUDT9	magenta
DSPP	grey
HSP90AB3P	blue
SPP1	grey
PKD2	turquoise
HERC6	blue
HERC5	yellow
FAM13A-AS1	grey
TIGD2	magenta
MMRN1	blue
ATOH1	grey
BMPR1B	grey
RAP1GDS1	red
C4orf17	grey
DAPP1	blue
CISD2	red
LOC101929448	magenta
ARHGEF38-IT1	grey
NPNT	grey
CYP2U1	blue
SEC24B	magenta
MIR576	yellow
CCDC109B	blue
RRH	turquoise
ENPEP	red
C4orf32	brown
AP1AR	yellow
ALPK1	turquoise
MIR1243	grey
NDST3	blue
SNORA24	black
CEP170P1	grey
LINC01000	turquoise
SYNPO2	blue
USP53	yellow
LOC645513	turquoise
LOC645513	turquoise
PP12613	grey
FGF2	grey
SPRY1	brown
HSPA4L	brown
LOC100507487	turquoise
JADE1	yellow
C4orf33	brown
NOCT	yellow
NAA15	brown
ELMOD2	turquoise
ZNF330	yellow

USP38	yellow
MIR3139	turquoise
LOC101927636	grey
HHIP	grey
ABCE1	brown
MMAA	brown
LSM6	grey
LOC345051	grey
POU4F2	grey
EDNRA	blue
TMEM184C	brown
ARHGAP10	grey
MIR4799	grey
DCLK2	grey
MAB21L2	grey
PRSS48	grey
LOC100996286	grey
DKFZP434I0714	grey
TRIM2	grey
TLR2	blue
GUCY1A3	blue
GUCY1B3	blue
TDO2	yellow
TMEM144	blue
RXFP1	grey
ETFDH	red
FNIP2	magenta
RAPGEF2	yellow
NPY5R	grey
TMA16	turquoise
MSMO1	red
CPE	grey
TLL1	grey
ANXA10	grey
PALLD	grey
LINC01612	grey
MIR548T	grey
CEP44	turquoise
LOC102723627	grey
SPCS3	brown
LOC285500	grey
TENM3	grey
LOC101929996	grey
STOX2	green
LOC102723779	green
PRIMPOL	turquoise
LOC101928810	grey
SLC25A4	brown
SNX25	yellow
ANKRD37	yellow
SORBS2	grey

TLR3	brown
FAM149A	green
CYP4V2	brown
HSP90AA4P	grey
FRG1	grey
ZNF732	grey
ABCA11P	turquoise
MFSD7	grey
LOC100129917	turquoise
NKX1-1	grey
FAM53A	grey
FAM53A	grey
ZFYVE28	grey
ZFYVE28	turquoise
HTT-AS	grey
FAM86EP	grey
LYAR	brown
STX18	red
CYTL1	grey
EVC2	grey
C4orf50	grey
LOC105374366	grey
LOC100129931	grey
FLJ36777	grey
MIR5482	green
MIR5482	grey
SLC2A9	yellow
MIR3138	grey
ZNF518B	blue
LINC01096	grey
CPEB2-AS1	turquoise
FGFBP2	grey
DCAF16	turquoise
LOC100505912	turquoise
ADGRA3	yellow
PPARGC1A	yellow
MIR573	turquoise
SEL1L3	blue
CCKAR	grey
LOC101928622	magenta
RELL1	grey
KLF3-AS1	grey
TLR1	blue
TLR6	grey
TMEM156	blue
UGDH	brown
LOC344967	grey
MIR4802	turquoise
APBB2	magenta
LINC00682	grey
ATP8A1	blue

GABRG1	grey
COMMD8	blue
CNGA1	magenta
TXK	yellow
TEC	turquoise
LRRRC66	red
SGCB	red
ERVMER34-1	grey
RPL21P44	turquoise
CHIC2	yellow
KDR	blue
CLOCK	grey
PPAT	brown
SPINK2	grey
NOA1	blue
IGFBP7	blue
LOC101927237	turquoise
CENPC	turquoise
UBA6	brown
UGT2B17	grey
UGT2B15	grey
UGT2A3	red
UGT2B4	grey
UGT2A1	grey
SULT1B1	brown
SULT1E1	magenta
JCHAIN	grey
ADAMTS3	grey
RASSF6	red
PF4	grey
PPBP	grey
CXCL5	grey
CXCL3	grey
PPBPP2	grey
CXCL2	yellow
LOC101928702	grey
LOC100506253	grey
RCHY1	turquoise
NAAA	grey
CXCL9	blue
CXCL10	blue
CXCL11	grey
NUP54	turquoise
CCDC158	magenta
SOWAHB	green
CNOT6L	yellow
GK2	grey
RASGEF1B	magenta
TMEM150C	turquoise
MIR575	green
THAP9-AS1	brown

PLAC8	blue
COQ2	yellow
HPSE	blue
FAM175A	grey
MIR4452	grey
HSD17B13	brown
HSD17B11	magenta
SPARCL1	blue
ABCG2	magenta
PPM1K	magenta
NAP1L5	grey
GPRIN3	blue
HPGDS	blue
STPG2	turquoise
ADH5	green
ADH6	turquoise
ADH1A	green
ADH1B	green
ADH1C	grey
TRMT10A	turquoise
LOC285556	grey
LAMTOR3	brown
DDIT4L	grey
EMCN	blue
MIR1255A	grey
CXXC4	grey
LOC101929529	grey
GIMD1	grey
ETNPPL	brown
CASP6	brown
ELOVL6	grey
NEUROG2	grey
ZGRF1	grey
MIR302D	grey
MIR302C	grey
ARSJ	red
SEC24D	brown
LINC01061	grey
GTF2IP12	turquoise
PDE5A	grey
NDNF	grey
ANXA5	brown
CCNA2	grey
BBS7	brown
ANKRD50	red
MFSD8	turquoise
PGRMC2	green
SCLT1	brown
PABPC4L	grey
PCDH18	green
SETD7	grey

LOC101927490	grey
SCOC-AS1	grey
CLGN	grey
TBC1D9	blue
RNF150	grey
LOC100507639	grey
SMAD1-AS2	grey
LINC01095	grey
SLC10A7	brown
PRMT9	brown
NR3C2	magenta
FBXW7	magenta
TMEM154	grey
LOC729870	grey
ANXA2P1	grey
PLRG1	brown
CTSO	brown
PDGFC	turquoise
FAM198B	blue
PPID	brown
MIR4454	grey
NAF1	brown
NPY1R	brown
TRIM61	grey
GK3P	grey
DDX60	blue
DDX60L	turquoise
C4orf27	brown
LOC100506085	magenta
MFAP3L	yellow
HSP90AA6P	grey
HMGB2	grey
LOC101928509	grey
FBXO8	brown
HPGD	brown
LOC100419741	grey
ASB5	grey
WWC2-AS1	grey
CLDN24	grey
RWDD4	yellow
LOC102723766	red
CASP3	turquoise
SLED1	yellow
LINC01093	magenta
CCDC110	red
PDLIM3	yellow
FAT1	brown
LOC339975	grey
LOC728339	green
UGT2A3	red
MAFIP	grey

LOC101929056	grey
CTD-2194D22.4	grey
IRX1	grey
LOC101929153	grey
ADAMTS16	grey
LINC01018	magenta
SRD5A1	yellow
PAPD7	yellow
LOC102724943	grey
SNORD123	black
ANKRD33B	grey
FAM105A	blue
LOC101929524	grey
BASP1	blue
PMCHL1	grey
PRDM9	grey
C5orf17	grey
LINC01021	grey
LSP1P3	grey
CDH6	blue
C5orf22	brown
NPR3	grey
RXFP3	grey
RAI14	green
IL7R	blue
SKP2	turquoise
NADK2-AS1	grey
SLC1A3	yellow
EGFLAM	grey
OSMR	brown
PTGER4	blue
CARD6	blue
C7	blue
C5orf51	brown
FBXO4	grey
GHR	red
PARP8	blue
ITGA2	grey
LOC257396	grey
FST	yellow
NDUFS4	grey
HSPB3	grey
LOC105378967	grey
GZMK	blue
GZMA	blue
GPX8	grey
SKIV2L2	turquoise
FLJ31104	grey
SETD9	grey
LINCR-0003	grey
LOC101928505	green

GAPT	grey
FKSG49	turquoise
CTC-436P18.1	grey
ZSWIM6	brown
C5orf64	grey
KIF2A	brown
IPO11	brown
RNF180	turquoise
RGS7BP	grey
PPWD1	turquoise
TRAPPC13	brown
NLN	grey
LOC101928858	grey
PIK3R1	yellow
MRPS36	grey
RAD17	turquoise
MARVELD2	pink
OCLN	brown
LOC441081	brown
GUSBP3	turquoise
SMN1	grey
GTF2H2C_2	brown
PMCHL2	grey
MCCC2	brown
CARTPT	grey
MAP1B	blue
MIR4803	grey
PTCD2	turquoise
MIR4804	grey
FCHO2	brown
TMEM174	grey
ARHGEF28	turquoise
NSA2	grey
HMGCR	red
POLK	turquoise
F2R	blue
F2RL1	blue
CRHBP	blue
PDE8B	grey
SCAMP1	yellow
BHMT	yellow
JMY	yellow
CMYA5	magenta
THBS4	grey
ZFYVE16	turquoise
MSH3	turquoise
CKMT2	grey
ATG10	brown
XRCC4	brown
VCAN	blue
LOC731157	green

POLR3G	grey
LOC105379674	grey
SLF1	yellow
ARSK	yellow
GPR150	grey
RFESD	brown
RHOBTB3	yellow
LOC102724720	yellow
LINC01554	magenta
MIR583	grey
CAST	turquoise
ERAP2	grey
LNPEP	brown
LINC01340	grey
CTD-2151A2.1	grey
FAM174A	yellow
PPIP5K2	turquoise
C5orf30	grey
FER	turquoise
MAN2A1	turquoise
TSLP	grey
EPB41L4A-AS1	grey
SNORA13	black
SRP19	brown
YTHDC2	turquoise
KCNN2	magenta
SEMA6A-AS1	turquoise
PTMA	grey
TNFAIP8	grey
SRFBP1	brown
ZNF474	grey
ZNF474	grey
SNX2	blue
GRAMD3	yellow
PRRC1	brown
SLC12A2	blue
ISOC1	brown
MIR4633	grey
CHSY3	grey
LYRM7	brown
LOC101927693	grey
SLC22A5	green
LEAP2	brown
UBE2B	yellow
LOC101927934	grey
CAMLG	blue
DDX46	grey
PCBD2	turquoise
MIR4461	grey
CATSPER3	turquoise
PCBD2	green

TGFBI	blue
SMAD5	brown
NPY6R	grey
MYOT	grey
LOC100130172	grey
KIF20A	grey
REEP2	grey
EGR1	yellow
SNORA74A	grey
IGIP	turquoise
LOC101929719	grey
SLC4A9	grey
SLC35A4	pink
TMCO6	magenta
VTRNA1-1	black
VTRNA1-2	grey
VTRNA1-3	grey
PCDHB1	grey
PCDHB3	grey
PCDHB5	grey
PCDHB7	grey
PCDHB9	grey
PCDHB11	grey
PCDHB12	grey
PCDHB13	brown
PCDHB14	grey
PCDHB18P	grey
PCDHB19P	grey
PCDHB15	grey
PCDHGB8P	turquoise
LOC100505658	grey
LOC102723915	grey
RELL2	grey
NDFIP1	red
ARHGAP26-IT1	turquoise
SH3RF2	grey
JAKMIP2-AS1	grey
SPINK9	grey
ADRB2	grey
LOC255187	grey
ABLIM3	yellow
CARMN	grey
ARHGEF37	grey
MIR378A	grey
SLC26A2	grey
HMGXB3	brown
CDX1	grey
SYNPO	green
SMIM3	grey
IRGM	grey
GPX3	blue

CTB-113P19.1	grey
MIR378H	grey
KIF4B	grey
SGCD	grey
ITK	blue
CYFIP2	magenta
NIPAL4	grey
C5orf52	grey
UBLCP1	brown
MIR3142	grey
CCNG1	magenta
TENM2	grey
CTB-78F1.2	grey
WWC1	red
FBLL1	grey
LOC101927969	magenta
SPDL1	grey
DOCK2	blue
MIR378E	grey
CTD-2270F17.1	grey
RANBP17	grey
FGF18	grey
SNORA74B	black
CREBRF	yellow
CPEB4	yellow
SIMC1	yellow
MIR1271	grey
HIGD2A	pink
CDHR2	grey
UNC5A	grey
ZNF346	turquoise
FGFR4	green
PRELID1	blue
LOC728554	grey
LOC728554	grey
LOC100128340	grey
ZNF354C	grey
BTNL3	grey
BTNL9	grey
OR2V2	grey
LINC01000	turquoise
LINC00266-1	turquoise
LOC100996325	grey
ZDHHC11	grey
SLC12A7	green
MIR4635	green
CTD-3080P12.3	grey
CLPTM1L	red
LOC728613	turquoise
MIR4277	grey
IRX4	grey

LINC01017	grey
NSUN2	yellow
LOC100505625	grey
LOC442132	grey
LOC101929261	grey
C5orf49	grey
LOC101929307	grey
SEMA5A	magenta
MIR4636	grey
FAM173B	turquoise
CTD-2154B17.1	grey
CTNND2	grey
FAM134B	yellow
LOC401177	grey
LOC102723561	turquoise
LINC01582	grey
MIR4279	grey
MIR579	turquoise
SLC45A2	green
C1QTNF3-AMACR	red
RAD1	grey
AGXT2	green
PRLR	red
UGT3A1	blue
UGT3A2	grey
MIR580	turquoise
RANBP3L	yellow
NIPBL-AS1	turquoise
LIFR	brown
MIR3650	grey
RICTOR	yellow
FYB	blue
C9	grey
DAB2	blue
SNORD72	grey
OXCT1	grey
LOC101926960	grey
HMGCS1	grey
CCL28	grey
EMB	blue
ARL15	brown
MIR581	turquoise
MIR449A	grey
MIR449C	grey
MCIDAS	grey
PLPP1	yellow
RNF138P1	yellow
SLC38A9	brown
ANKRD55	green
RNU6ATAC	black
PLK2	blue

LOC101928600	grey
ADAMTS6	grey
LOC100303749	grey
LOC101928741	grey
LOC101928794	green
CD180	blue
CCDC125	turquoise
GUSBP3	turquoise
GUSBP3	turquoise
SMA5	turquoise
NAIP	brown
LOC647859	grey
GUSBP9	turquoise
LOC102724392	grey
MRPS27	brown
ZNF366	grey
ANKRA2	yellow
ENC1	green
FAM169A	grey
GCNT4	grey
F2RL2	blue
ZBED3	grey
SNORA47	black
WDR41	brown
SCAMP1-AS1	grey
LHFPL2	grey
ARSB	turquoise
DMGDH	magenta
HOMER1	grey
MTX3	turquoise
CTD-2201118.1	grey
SERINC5	red
LOC644936	grey
MTRNR2L2	green
CKMT2-AS1	turquoise
ACOT12	yellow
SSBP2	blue
RPS23	grey
SCARNA18	grey
CCNH	brown
MEF2C	blue
CETN3	turquoise
LYSMD3	brown
LUCAT1	yellow
ARRDC3	magenta
KIAA0825	turquoise
MCTP1	blue
SPATA9	grey
ELL2	yellow
ERAP1	red
LOC100133050	grey

ST8SIA4	blue
SLCO4C1	brown
GIN1	turquoise
NUDT12	brown
LOC102467213	grey
STARD4	yellow
NREP	magenta
EPB41L4A	brown
MCC	green
TSSK1B	grey
LOC102723365	grey
PGGT1B	turquoise
FEM1C	yellow
TMED7-TICAM2	brown
LOC102467217	red
CDO1	yellow
LOC101927190	grey
LOC102467223	grey
MGC32805	turquoise
MGC32805	grey
CEP120	turquoise
ZNF608	green
LOC101927488	grey
MARCH3	grey
C5orf63	turquoise
LINC01184	grey
LOC101929964	turquoise
LOC553103	turquoise
MIR3936	turquoise
IRF1	blue
SEPT8	grey
SHROOM1	grey
GDF9	grey
ZCCHC10	grey
MIR1289-2	grey
PPP2CA	brown
LOC102546229	grey
TIFAB	grey
CXCL14	grey
LECT2	grey
VTRNA2-1	grey
LOC389332	grey
KLHL3	grey
MIR874	grey
LOC101928005	grey
CDC23	brown
HSPA9	turquoise
SNORD63	black
PAIP2	green
ECSCR	grey
ECSCR	blue

CD14	grey
HARS	yellow
TAF7	brown
PCDH1	pink
SPRY4	blue
YIPF5	brown
PLAC8L1	grey
PPP2R2B	grey
DPYSL3	grey
JAKMIP2	green
SPINK1	grey
LOC102546294	grey
MIR584	grey
PDE6A	grey
CSF1R	blue
PDGFRB	grey
CAMK2A	grey
ARSI	grey
CD74	blue
ZNF300	grey
ZNF300P1	grey
ANXA6	red
CCDC69	grey
SLC36A2	grey
FAT2	grey
FAXDC2	magenta
TIMD4	blue
HAVCR2	blue
FAM71B	grey
FNDC9	grey
EBF1	grey
LOC101927766	grey
C1QTNF2	grey
ZBED8	turquoise
SLU7	brown
LOC285629	grey
LOC101927835	grey
PANK3	red
MIR103A1	grey
MIR218-2	grey
LCP2	blue
KCNMB1	grey
MIR4454	grey
STK10	blue
DUSP1	yellow
LOC100268168	grey
LINC01485	grey
LOC102724551	grey
DRD1	grey
LOC643201	red
KIAA1191	yellow

HK3	grey
PFN3	grey
LOC202181	yellow
FAM153A	grey
PROP1	grey
CLK4	turquoise
LOC102724657	grey
AACSP1	grey
FLJ31183	grey
GRM6	grey
C5orf60	grey
CBY3	grey
MGAT4B	green
MIR1229	grey
MIR340	green
OR2V1	grey
LOC102577426	grey
TRIM7	grey
LOC642316	grey
IRF4	grey
FOXC1	grey
GMDS-AS1	turquoise
LINC01011	grey
NQO2	green
NQO2	green
BPHL	turquoise
TUBB2A	grey
TUBB2A	grey
PRPF4B	turquoise
PPP1R3G	yellow
LY86	blue
LOC101928047	grey
RREB1	green
DSP	red
BMP6	yellow
LOC100506207	grey
HULC	grey
PAK1IP1	brown
ELOVL2-AS1	grey
TMEM170B	brown
HIVEP1	yellow
EDN1	grey
CD83	yellow
LOC101928406	grey
MYLIP	grey
GMPR	grey
CAP2	grey
RNF144B	brown
ID4	grey
E2F3	grey
SOX4	grey

KAAG1	grey
MRS2	green
ACOT13	grey
GMNN	grey
LRRC16A	red
SCGN	red
HIST1H2APS1	grey
SLC17A4	green
HIST1H3A	grey
HIST1H4C	grey
HIST1H2AC	red
HIST1H1E	grey
HIST1H2BD	brown
HIST1H2BE	grey
HIST1H2BF	grey
HIST1H2AE	grey
HIST1H3E	grey
HIST1H4F	grey
HIST1H2BH	grey
HIST1H2BI	grey
BTN2A3P	grey
HCG11	grey
LOC105374989	grey
LOC102724851	turquoise
LINC00240	grey
HIST1H2AG	grey
MIR3143	grey
HIST1H2AI	grey
HIST1H3H	grey
HIST1H2BM	pink
HIST1H4K	pink
HIST1H2BN	blue
HIST1H2AL	grey
OR2B6	grey
ZNF165	grey
ZSCAN12P1	grey
ZKSCAN8	turquoise
ZSCAN26	turquoise
ZKSCAN3	turquoise
OR2J2	grey
SNORD32B	black
HLA-F	blue
HLA-G	blue
HLA-A	grey
HLA-J	grey
RPP21	pink
HLA-E	blue
MIR877	grey
TUBB	green
MUC22	grey
HCG26	grey

AIF1	blue
SNORA38	black
APOM	magenta
SAPCD1	grey
HSPA1A	grey
HSPA1A	grey
C4A	grey
CYP21A1P	grey
C4B	grey
CYP21A2	grey
HLA-DRA	blue
HLA-DQA1	grey
HLA-DQA2	blue
PSMB9	blue
HLA-DPB1	blue
HLA-DPB2	blue
MIR3934	grey
LOC102723521	grey
LOC101929243	magenta
UHRF1BP1	blue
DEF6	grey
PI16	grey
CDKN1A	grey
RAB44	grey
RAB44	grey
FGD2	blue
PIM1	yellow
LOC100505530	grey
LOC102723736	grey
LOC101929425	grey
ADCY10P1	turquoise
TREML4	grey
TREML5P	grey
LINC01276	grey
MDFI	grey
TOMM6	grey
LOC401261	turquoise
CNPY3	grey
GNMT	grey
SLC22A7	green
POLH	green
RSPH9	grey
VEGFA	turquoise
LINC01512	grey
TMEM63B	pink
LOC101929770	grey
ENPP4	blue
SLC25A27	turquoise
TDRD6	turquoise
ADGRF2	grey
CENPQ	grey

GLYATL3	grey
C6orf141	grey
LOC100505985	magenta
MIR133B	grey
PAQR8	grey
EFHC1	turquoise
LOC730101	green
TMEM14A	green
FBXO9	turquoise
LINC01564	grey
MLIP	grey
KIAA1586	grey
PTP4A1	yellow
ADGRB3	grey
SDHAF4	turquoise
OGFRL1	blue
MTO1	brown
LOC100506804	green
MEI4	grey
IRAK1BP1	brown
HMG3-AS1	grey
LOC100506851	grey
SH3BGRL2	red
TPBG	grey
DOPEY1	turquoise
RWDD2A	brown
PRSS35	grey
CYB5R4	blue
NT5E	green
ZNF292	turquoise
SMIM8	turquoise
C6orf163	turquoise
LINC01590	grey
CFAP206	grey
ORC3	brown
PNRC1	yellow
PM20D2	brown
LOC101929057	grey
MANEA	brown
MIR2113	grey
LOC101927365	turquoise
TSTD3	green
PRDM1	blue
AIM1	turquoise
QRSL1	brown
MIR587	grey
C6orf203	turquoise
SOBP	grey
OSTM1-AS1	grey
LACE1	turquoise
ARMC2	grey

CEP57L1	turquoise
LOC100996634	grey
CCDC162P	grey
CCDC162P	grey
AMD1	brown
SLC16A10	grey
MFSD4B	turquoise
MARCKS	blue
FLJ34503	grey
TPI1P3	grey
NT5DC1	turquoise
DSE	magenta
FAM26F	blue
FAM26E	grey
PLN	grey
ASF1A	brown
GJA1	blue
SMPDL3A	grey
NKAIN2	grey
RNF217	turquoise
HEY2	yellow
NCOA7	yellow
TRMT11	turquoise
CENPW	grey
RSPO3	green
RNF146	turquoise
LOC101928140	grey
LAMA2	blue
L3MBTL3	turquoise
SMLR1	green
AKAP7	grey
ENPP3	magenta
ENPP1	magenta
SNORD101	grey
SNORD100	black
SNORA33	black
TCF21	grey
MIR548A2	grey
PDE7B	magenta
LOC101928461	grey
PEX7	brown
TNFAIP3	yellow
FLJ46906	green
ABRACL	yellow
LOC100132735	grey
VTA1	brown
ADGRG6	magenta
PEX3	brown
FUCA2	grey
LTV1	brown
STX11	blue

LOC100507557	grey
GRM1	grey
STXBP5	brown
SAMD5	grey
SASH1	blue
SUMO4	turquoise
GINM1	brown
RAET1E-AS1	grey
ULBP2	grey
ULBP1	grey
IYD	magenta
PLEKHG1	brown
AKAP12	yellow
ARMT1	brown
CCDC170	red
ESR1	red
MYCT1	blue
LOC101928868	grey
ZDHHC14	green
MIR3692	green
TULP4	brown
FNDC1	grey
ACAT2	red
LOC729603	yellow
SLC22A3	brown
PACRG	red
LOC101929297	grey
LOC100289495	grey
LOC102725048	grey
UNC93A	grey
ERMARD	turquoise
LINC00574	green
MIR4644	grey
RPL23AP87	green
EXOC2	brown
HUS1B	grey
LINC01622	grey
LINC01600	grey
MYLK4	grey
SERPINB9P1	grey
SERPINB9	blue
LOC100507194	grey
TUBB2B	grey
SLC22A23	red
PXDC1	red
RPP40	brown
LYRM4	grey
LYRM4	grey
MIR3691	grey
LOC101927972	grey
NRN1	blue

F13A1	blue
LOC105374901	grey
SSR1	brown
LOC101928076	grey
SCARNA27	black
TFAP2A	grey
GCM2	grey
ELOVL2	red
NEDD9	yellow
ADTRP	grey
LOC102724379	yellow
LOC101928253	grey
LOC100130357	grey
GFOD1	yellow
RANBP9	yellow
LINC01108	grey
JARID2-AS1	grey
LOC102724520	grey
ATXN1	turquoise
NHLRC1	green
TPMT	brown
MBOAT1	blue
LINC00581	grey
NBAT1	grey
DCDC2	grey
GPLD1	red
KIAA0319	grey
C6orf62	turquoise
FAM65B	blue
CMAHP	red
HIST1H2AA	turquoise
SLC17A1	magenta
SLC17A3	magenta
SLC17A2	green
HIST1H1A	grey
HIST1H4B	grey
HIST1H2AB	grey
HIST1H2BB	grey
HIST1H1C	blue
HIST1H2BC	blue
HIST1H4D	black
HIST1H2BG	grey
HIST1H3F	grey
LOC285819	grey
ZNF322	grey
GUSBP2	turquoise
LOC100270746	grey
HIST1H2BK	blue
ZNF204P	grey
ZNF184	grey
HIST1H2BL	grey

HIST1H4K	pink
HIST1H2AK	grey
HIST1H1B	grey
HIST1H3I	blue
HIST1H4L	grey
HIST1H2AM	grey
LOC102724889	grey
TOB2P1	grey
ZKSCAN4	grey
OR5V1	grey
MAS1L	grey
UBD	blue
IFITM4P	pink
HCG4	red
HCG4B	grey
PPP1R10	yellow
NRM	grey
IER3	grey
CDSN	grey
PSORS1C2	grey
HLA-C	blue
SNORD117	black
LTB	grey
MIR4646	grey
MIR1236	grey
C4A	grey
C4A	grey
PRRT1	grey
AGPAT1	pink
HLA-DRB5	grey
HLA-DRB6	grey
HLA-DRB1	grey
MIR3135B	grey
HLA-DQB2	blue
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DMA	blue
HLA-DPA1	blue
LINC00336	grey
IP6K3	red
MLN	grey
LINC01016	grey
FKBP5	yellow
LOC102723648	grey
C6orf222	grey
MIR3925	grey
PPIL1	blue
MIR4462	grey
GLO1	red
KCNK5	green

KCNK17	grey
KCNK16	grey
KIF6	grey
LOC101929535	grey
LOC101929555	magenta
UNC5CL	green
OARD1	turquoise
TREML1	grey
TREM2	grey
TREML3P	grey
TREM1	yellow
LOC100505711	grey
USP49	grey
GUCA1B	grey
MRPS10	brown
PRPH2	grey
C6orf226	grey
LRRC73	grey
LOC285857	grey
LOC101929705	grey
SLC35B2	pink
ENPP5	grey
RCAN2	grey
CYP39A1	magenta
LOC101926934	grey
PLA2G7	blue
ADGRF5	blue
LOC101927048	grey
PKHD1	turquoise
TRAM2	grey
GSTA7P	grey
GSTA2	grey
GSTA3	grey
GSTA4	green
ELOVL5	red
KLHL31	grey
BMP5	grey
LOC101927211	grey
RAB23	brown
GUSBP4	turquoise
GUSBP4	turquoise
LGSN	magenta
LOC105369204	grey
LINC00472	turquoise
MIR30C2	grey
MIR30A	grey
OOEP	grey
MB21D1	grey
COL12A1	blue
FILIP1	grey
HTR1B	grey

LINC01621	green
LOC102724168	brown
PGM3	brown
ME1	blue
CEP162	turquoise
LOC101928820	green
UBE2J1	brown
RRAGD	grey
MDN1	turquoise
BACH2	grey
GPR63	grey
NDUFAF4	brown
MMS22L	grey
FAXC	grey
COQ3	brown
PNISR	turquoise
CCNC	brown
MCHR2	grey
SIM1	grey
ASCC3	brown
HACE1	yellow
LIN28B-AS1	grey
BVES	blue
RTN4IP1	brown
LOC100422737	turquoise
PDSS2	brown
SCML4	grey
OSTM1	brown
SESN1	yellow
CD164	red
ZBTB24	brown
METTTL24	grey
GSTM2P1	grey
TRAF3IP2	grey
FYN	blue
TUBE1	red
LINC01268	green
FRK	green
COL10A1	grey
ZUFSP	grey
CEP85L	turquoise
FAM184A	green
MIR548B	grey
TBC1D32	turquoise
RNF217-AS1	grey
LOC102723341	grey
LOC105377986	magenta
ECHDC1	brown
SOGA3	grey
THEMIS	grey
ARHGAP18	blue

EPB41L2	blue
OR2A4	grey
CTGF	yellow
MOXD1	grey
STX7	brown
TAAR3	green
VNN1	red
VNN3	grey
VNN2	blue
SLC18B1	turquoise
TARID	magenta
SLC2A12	brown
HMGA1P7	grey
SGK1	yellow
LOC101928231	grey
LOC101928277	grey
MIR3662	grey
AHI1	turquoise
LOC644135	grey
MAP3K5	yellow
IL20RA	grey
IFNGR1	blue
OLIG3	grey
LOC100130476	grey
LOC100130476	yellow
PERP	grey
NHSL1	green
REPS1	magenta
TXLNB	grey
CITED2	pink
LINC01625	magenta
LOC153910	grey
HIVEP2	yellow
LINC01277	grey
ADAT2	turquoise
FUCA2	grey
PHACTR2-AS1	grey
PLAGL1	blue
FBXO30	brown
NUP43	turquoise
ULBP3	blue
ZBTB2	yellow
IPCEF1	blue
TFB1M	brown
DYNLT1	brown
EZR	blue
OSTCP1	grey
TAGAP	blue
LOC401281	grey
SOD2	yellow
LOC100129518	grey

LPAL2	magenta
LPA	grey
DKFZp451B082	grey
PDE10A	grey
MPC1	red
MIR1913	grey
MIR3939	grey
GPR31	grey
LOC401286	grey
LINC01558	yellow
DACT2	grey
LOC101929460	grey
LOC101929504	grey
THBS2	blue
LOC401287	grey
LOC102724475	grey
DLL1	yellow
RPL23AP53	grey
LOC101929006	grey
SNORD32B	black
HLA-A	blue
TUBB	green
TNF	grey
SAPCD1	grey
HSPA1A	grey
HSPA1B	grey
HLA-DPB1	blue
HLA-DPB2	blue
MAS1L	grey
HCG4B	grey
NRM	grey
SNORD117	black
HLA-DRB3	blue
MIR3135B	grey
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DPA1	blue
SNORD32B	black
HLA-F	blue
HLA-G	blue
HLA-A	blue
RPP21	pink
HLA-E	blue
MIR877	grey
TUBB	green
MIR4640	grey
DPCR1	grey
MICA	turquoise
HCP5	blue
AIF1	blue

SNORA38	black
HSPA1A	grey
HSPA1B	grey
C6orf48	blue
C6orf48	brown
C4B	grey
CYP21A2	grey
HLA-DRA	blue
HLA-DQA1	blue
HLA-DQA2	blue
PSMB9	blue
MAS1L	grey
IFITM4P	pink
HCG4B	grey
PPP1R10	yellow
NRM	grey
IER3	yellow
LINC00243	grey
C6orf15	grey
CDSN	grey
PSORS1C3	grey
HLA-C	blue
SNORD117	black
MIR4646	grey
MIR1236	grey
C4A	grey
HLA-DRB3	blue
HLA-DRB1	blue
HLA-DQB1	blue
MIR3135B	grey
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DOA	blue
HLA-DPA1	blue
OR12D2	grey
SNORD32B	black
HLA-F	blue
HLA-G	blue
HLA-E	blue
MIR877	grey
TUBB	green
MIR4640	grey
AIF1	blue
SAPCD1	grey
HSPA1A	grey
HSPA1B	grey
C4B	grey
C4B	grey
CYP21A2	grey
HLA-DRA	blue

HLA-DQA1	blue
HLA-DQA2	blue
HLA-DPB1	blue
MAS1L	grey
UBD	blue
IFITM4P	pink
HCG4	red
PPP1R10	yellow
NRM	grey
IER3	yellow
LINC00243	grey
SFTA2	grey
PSORS1C3	grey
HLA-C	blue
SNORD117	black
DDX39B	brown
C6orf47	grey
MIR4646	grey
MIR1236	grey
C4A	grey
FKBPL	grey
HLA-DRB3	blue
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DPA1	blue
SNORD32B	black
HLA-F	blue
HLA-A	blue
HLA-L	blue
HLA-E	blue
MIR877	grey
TUBB	green
MIR4640	grey
HCG27	grey
SNORA38	black
PPT2-EGFL8	grey
HLA-DRA	blue
HLA-DQA1	blue
HLA-DQA2	blue
PSMB9	blue
HLA-DPB1	blue
MAS1L	grey
IFITM4P	pink
HCG4	red
HCG18	grey
PPP1R10	yellow
NRM	grey
IER3	yellow
PSORS1C3	grey
HLA-B	blue

SNORD117	black
DDX39B	brown
MIR4646	grey
HLA-DRB3	blue
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DPA1	blue
OR2J3	grey
SNORD32B	black
HLA-F	blue
HLA-G	blue
HLA-A	blue
HLA-E	blue
MIR877	grey
TUBB	green
MIR4640	grey
HCG27	grey
HCP5	blue
AIF1	blue
SAPCD1	grey
C4B	grey
CYP21A2	grey
HLA-DRA	blue
HLA-DQA2	blue
BRD2	turquoise
HLA-DPB1	blue
KIFC1	grey
MAS1L	grey
IFITM4P	pink
HCG4	red
PPP1R10	yellow
NRM	grey
PSORS1C3	grey
HLA-C	blue
HLA-B	blue
SNORD117	black
DDX39B	grey
DDX39B	grey
MIR4646	grey
MIR1236	grey
C4A	grey
FKBPL	grey
HLA-DRB4	blue
HLA-DQB1	grey
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DMA	blue
HLA-DPA1	blue
OR2J2	grey

SNORD32B	black
HLA-F	blue
HLA-G	blue
HLA-A	blue
ZNRD1	grey
PPP1R11	grey
HLA-E	blue
MIR877	grey
TUBB	green
MIR4640	grey
HCG27	grey
MICA	grey
AIF1	blue
SNORA38	black
MSH5	turquoise
HSPA1A	grey
HSPA1B	grey
CYP21A2	grey
HLA-DRA	blue
HLA-DQA1	blue
HLA-DQA2	blue
PSMB9	blue
HLA-DPB1	blue
MAS1L	grey
IFITM4P	pink
PPP1R10	yellow
NRM	grey
IER3	grey
C6orf15	grey
PSORS1C3	grey
HLA-C	blue
HLA-B	blue
SNORD117	black
DDX39B	brown
MIR4646	grey
ZBTB12	grey
MIR1236	grey
C4A	grey
HLA-DRB3	blue
HLA-DRB1	blue
HLA-DQB1	blue
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DOA	blue
HLA-DPA1	blue
HLA-G	blue
HLA-A	blue
RPP21	pink
HLA-E	blue
MIR877	grey

TUBB	green
MICA	turquoise
LINC01149	grey
HCP5	blue
AIF1	blue
SNORA38	black
SAPCD1	grey
C4B	grey
CYP21A2	grey
C4B	grey
HLA-DRA	blue
HLA-DQA1	blue
HLA-DQA2	blue
HLA-DPB1	blue
ZNF311	grey
MAS1L	grey
IFITM4P	pink
HCG4	red
PPP1R10	yellow
IER3	yellow
PSORS1C3	grey
HLA-C	blue
HLA-B	blue
SNORD117	black
MIR4646	grey
MIR1236	grey
C4A	grey
C4A	grey
MIR3135B	grey
PSMB8	blue
TAP1	blue
HLA-DMB	blue
HLA-DMA	blue
HLA-DPA1	blue
DAXX	grey
LOC442497	grey
LOC101927000	grey
GET4	green
GPB1	green
LOC101927021	grey
PSMG3-AS1	grey
ELFN1	green
LOC100128374	grey
NUDT1	grey
IQCE	grey
SNORD13P2	turquoise
RNF216P1	grey
SLC29A4	grey
LOC221946	grey
ZNF815P	grey
ANKRD61	grey

PMS2CL	turquoise
C1GALT1	turquoise
MIOS	magenta
GLCCI1	turquoise
ARL4A	grey
LOC105375166	red
TSPAN13	grey
AHR	grey
ITGB8	grey
RPL23P8	grey
SP4	turquoise
MIR1183	grey
DNAH11	grey
LOC101927841	grey
LOC730020	grey
GPNMB	blue
RPS2P32	grey
CCDC126	green
FAM221A	grey
MPP6	turquoise
SNX10	brown
HOTTIP	grey
TSL	grey
JAZF1-AS1	grey
LOC100506497	grey
ZNRF2	turquoise
MIR550A1	turquoise
DKFZP586I1420	turquoise
GARS	brown
AQP1	grey
ADCYAP1R1	grey
CCDC129	grey
ZNRF2P1	turquoise
MIR550A2	grey
LINC00997	turquoise
FLJ20712	turquoise
SEPT7	brown
ANLN	grey
EPDR1	grey
TRG-AS1	grey
POU6F2	grey
YAE1D1	turquoise
STK17A	blue
BLVRA	blue
SPDYE1	grey
PPIA	brown
RAMP3	grey
IGFBP1	yellow
UPP1	yellow
CDC14C	grey
LOC100996654	grey

EGFR	yellow
GBAS	turquoise
MIR3147	grey
ZNF716	grey
LOC100287704	grey
MIR4283-1	grey
LOC101929190	grey
ZNF727	grey
ZNF727	grey
YWHAEP1	grey
LOC641746	grey
ZNF138	turquoise
CCT6P3	grey
SNORA15	black
INTS4P1	grey
CCT6P1	grey
SNORA22	black
SNORA15	black
TPST1	yellow
GS1-124K5.4	grey
STAG3L4	turquoise
MIR4650-1	grey
SBDSP1	grey
LOC541473	grey
PMS2P7	green
NCF1B	grey
VPS37D	grey
MIR590	turquoise
GTF2IRD1	green
TRIM73	grey
TRIM74	grey
NSUN5P1	green
RHBDD2	pink
POR	yellow
SNORA14A	black
HSPB1	pink
ZP3	grey
LOC105375355	green
DTX2P1-UPK3BP1-PMS2P11	green
PMS2P9	turquoise
CCDC146	turquoise
PHTF2	brown
LOC105375368	grey
MAGI2-AS3	magenta
GNAI1	magenta
CD36	brown
DMTF1	turquoise
CROT	brown
DBF4	brown
LOC102723885	grey
ZNF804B	grey

STEAP1	green
STEAP2	grey
CFAP69	turquoise
CLDN12	magenta
CDK14	turquoise
AKAP9	turquoise
RBM48	turquoise
GNG11	blue
COL1A2	blue
CASD1	brown
PEG10	grey
ASB4	grey
SDHAF3	turquoise
BHLHA15	grey
ARPC1B	blue
ZKSCAN5	grey
CYP3A43	yellow
LOC101927610	green
AZGP1P1	magenta
STAG3	grey
SPDYE3	grey
STAG3L5P-PVRIG2P-PILRB	turquoise
PILRA	blue
LOC101927632	grey
NYAP1	grey
AGFG2	green
PCOLCE	pink
EPO	grey
TRIP6	grey
MUC3A	grey
MUC17	grey
SERPINE1	yellow
MIR4653	grey
LOC101927746	grey
COL26A1	grey
SH2B2	grey
ORAI2	grey
SPDYE2	grey
SPDYE2	grey
LRRC17	grey
NFE4	grey
PSMC2	brown
LOC101927902	grey
RINT1	brown
CDHR3	green
PIK3CG	blue
PRKAR2B	yellow
HBP1	yellow
DNAJB9	brown
LRRN3	green
DOCK4-AS1	grey

IFRD1	yellow
LSMEM1	yellow
FOXP2	yellow
MDFIC	grey
TES	blue
MET	red
CAPZA2	brown
ST7-OT4	turquoise
CFTR	grey
WNT16	grey
MIR129-1	grey
HILPDA	grey
LINC01000	turquoise
CALU	brown
CCDC136	grey
LOC100130705	grey
TPI1P2	grey
TSPAN33	red
SMO	green
SMKR1	grey
KLHDC10	turquoise
MEST	magenta
LOC100506860	yellow
EXOC4	grey
AKR1B10	grey
AKR1B15	grey
BPGM	brown
AGBL3	grey
TMEM140	blue
MIR490	grey
AKR1D1	magenta
MIR4468	grey
TRIM24	green
PP12708	turquoise
JHDM1D-AS1	grey
RAB19	grey
TAS2R3	turquoise
TAS2R4	turquoise
TAS2R5	grey
MGAM	yellow
MGAM2	grey
MGAM2	grey
MGAM2	grey
MGAM2	pink
MGAM2	grey
MGAM2	grey
MGAM2	red
MGAM2	red
TRBV7-2	grey
TRBV19	grey
IL23A	blue

MTRNR2L6	grey
IL23A	grey
IFI6	grey
IL23A	grey
IL23A	grey
IL23A	blue
C7orf34	grey
TAS2R40	grey
TMEM139	green
TAS2R60	grey
TCAF2	yellow
OR2F1	grey
OR2A5	grey
OR2A2	grey
OR2A14	grey
OR2A1-AS1	grey
OR2A9P	grey
OR2A1	grey
ARHGEF5	grey
C7orf33	grey
ZNF783	grey
ZNF783	turquoise
ZNF783	grey
KRBA1	grey
ATP6V0E2	red
LOC100134040	grey
LRRRC61	pink
ZNF775	grey
LINC00996	grey
GIMAP8	blue
GIMAP7	blue
GIMAP4	blue
GIMAP2	grey
GIMAP1-GIMAP5	blue
TMEM176A	pink
AOC1	grey
LOC644090	grey
PRKAG2-AS1	grey
FABP5P3	grey
LINC01003	grey
PAXIP1-AS2	brown
HTR5A	grey
INSIG1	yellow
LOC100286906	grey
EN2	grey
LOC644841	grey
LOC389602	green
LOC102723795	grey
LOC101927914	grey
LOC102723672	grey
LOC100127940	grey

GPR146	grey
ZFAND2A	red
ELFN1-AS1	grey
MIR4655	grey
ZNF890P	grey
FBXL18	grey
MIR589	grey
PMS2	brown
DAGLB	brown
GRID2IP	grey
COL28A1	grey
LOC101927391	grey
LOC100505921	grey
ICA1	grey
THSD7A	grey
ETV1	green
DGKB	grey
AGMO	turquoise
MEOX2	grey
ISPD	grey
ANKMY2	turquoise
LOC101927630	grey
MIR1302-6	grey
FERD3L	grey
TWISTNB	brown
SP8	grey
RAPGEF5	yellow
STEAP1B	grey
LOC102724162	grey
FAM126A	turquoise
CLK2P1	grey
LOC646588	grey
HOXA2	grey
HOXA5	grey
HOXA6	grey
HOXA11	grey
HOXA13	grey
JAZF1	grey
TRIL	grey
CPVL	blue
LOC102724484	grey
MIR550A3	grey
FKBP14	turquoise
MIR550B1	grey
LOC401320	turquoise
LOC401320	turquoise
LSM5	grey
DPY19L1P1	grey
MIR550B2	grey
KBTBD2	brown
RP9P	grey

DPY19L1	red
DPY19L2P1	grey
SEPT7-AS1	grey
KIAA0895	magenta
AOAH	blue
AOAH-IT1	grey
MIR1200	turquoise
TARP	blue
TARP	blue
TARP	grey
TARP	blue
TARP	blue
TARP	blue
TARP	blue
TARP	grey
TARP	grey
TARP	grey
FAM183BP	grey
VPS41	turquoise
POU6F2-AS1	grey
MPLKIP	green
MPLKIP	red
LINC01450	grey
INHBA	red
PSMA2	grey
COA1	brown
PGAM2	grey
GCK	grey
NPC1L1	red
MYO1G	grey
SNORA9	black
SNORA5A	black
SNORA5C	black
SEPT7P2	turquoise
LOC730338	grey
HUS1	yellow
LINC01446	grey
EGFR-AS1	grey
LOC101060341	turquoise
PHKG1	grey
NUPR2	grey
LOC650226	grey
LOC401357	grey
LOC100130849	grey
MIR4283-1	grey
ZNF479	grey
GUSBP10	grey
LOC441233	grey
PHKG1	grey
ZNF733P	grey
LOC100287834	grey

LOC441239	grey
ZNF117	turquoise
ERV3-1	turquoise
LOC441242	grey
GS1-124K5.11	turquoise
GTF2IRD1P1	grey
MIR4650-1	grey
PMS2P4	turquoise
SPDYE8P	grey
GTF2IRD2P1	grey
NSUN5	turquoise
MLXIPL	turquoise
CLDN3	grey
NCF1C	grey
PMS2P7	green
CCL24	grey
STYXL1	blue
FDPSP2	grey
FGL2	blue
GSAP	turquoise
LOC101927269	magenta
SEMA3C	grey
HGF	blue
SEMA3A	grey
LOC101927420	grey
ABCB4	red
ABCB1	grey
SLC25A40	brown
SRI	blue
STEAP4	blue
STEAP2-AS1	grey
MTERF1	turquoise
CYP51A1	red
ERVW-1	grey
CDK6	grey
SAMD9	blue
SAMD9L	blue
TFPI2	blue
SGCE	grey
LOC105375405	grey
PON3	magenta
PON2	brown
PDK4	yellow
MIR591	turquoise
C7orf76	green
SHFM1	grey
LOC100506136	grey
OCM2	grey
BAIAP2L1	magenta
SMURF1	yellow
CYP3A5	yellow

OR2AE1	grey
GJC3	grey
MIR25	grey
MIR106B	grey
GPC2	grey
GATS	grey
PPP1R35	grey
LRCH4	grey
EPHB4	green
LOC102724094	grey
MOGAT3	green
MYL10	grey
SPDYE6	grey
POLR2J	grey
RASA4	grey
RASA4	grey
RASA4	grey
RASA4	grey
RASA4	grey
RASA4B	grey
RASA4	grey
RASA4	turquoise
RASA4	grey
POLR2J2	grey
NAPEPLD	green
RPL19P12	green
SLC26A5	yellow
RELN	brown
LINC01004	turquoise
PUS7	brown
CCDC71L	yellow
COG5	brown
SLC26A3	grey
LAMB1	brown
PNPLA8	yellow
EIF3IP1	grey
IMMP2L	turquoise
DOCK4	red
TMEM168	turquoise
GPR85	grey
AASS	magenta
FEZF1	grey
CADPS2	brown
RNF148	grey
TMEM229A	grey
GPR37	red
C7orf77	grey
POT1	turquoise
GRM8	grey
PAX4	grey
MIR182	grey

UBE2H	red
TMEM209	brown
MIR29A	yellow
LINC-PINT	yellow
LINC-PINT	yellow
PODXL	grey
SLC35B4	brown
FAM180A	blue
CREB3L2	grey
ATP6V0A4	grey
ZC3HAV1L	grey
ZC3HAV1	green
HIPK2	pink
PARP12	red
KDM7A	brown
NDUFB2-AS1	grey
LOC401410	grey
IL23A	grey
TRPV6	grey
KEL	grey
OR9A2	grey
OR6W1P	grey
TMEM139	grey
LOC100507507	grey
CTAGE6	grey
LOC154761	grey
ARHGEF35	grey
OR2A42	grey
OR2A1-AS1	grey
OR2A7	grey
LOC101928700	grey
ZNF786	turquoise
ZNF767P	turquoise
ZNF467	grey
ACTR3C	red
LOC105375566	grey
KCNH2	grey
ATG9B	grey
SLC4A2	grey
PRKAG2	yellow
XRCC2	grey
C7orf13	grey
LOC101927858	grey
MIR153-2	grey
LOC389831	turquoise
ZNF596	turquoise
MIR596	grey
KBTD11	grey
LOC105377781	grey
AGPAT5	magenta
FAM90A10P	grey

SPAG11A	grey
DEFB4A	grey
FAM86B3P	grey
MIR4660	grey
LOC157273	green
TNKS	turquoise
MIR597	turquoise
MSRA	turquoise
LINCR-0001	turquoise
MTMR9	brown
SLC35G5	grey
GATA4	red
C8orf49	red
FDFT1	red
ZNF705D	grey
FAM66A	grey
MIR3926-2	grey
LINC00681	grey
LOC101930149	grey
TUSC3	grey
MICU3	turquoise
LOC105379298	green
ZDHHC2	grey
SLC7A2	grey
PDGFRL	grey
LOC101930275	yellow
LOC101929066	grey
NAT1	magenta
NAT2	grey
NSAP11	grey
LPL	grey
LOC286114	magenta
FGF17	grey
DMTN	green
PIWIL2	grey
C8orf58	grey
LOC101929237	grey
TNFRSF10C	grey
LOC100507156	grey
SLC25A37	green
ADAM28	grey
ADAM7	grey
NEFM	grey
DOCK5	yellow
PPP2R2A	yellow
DPYSL2	blue
SCARA3	grey
MIR3622A	grey
ESCO2	grey
PNOC	grey
FZD3	brown

EXTL3	green
LOC101929450	grey
FAM183CP	grey
RBPMS	yellow
WRN	brown
NRG1	yellow
NRG1-IT3	grey
LOC105379362	grey
ZNF703	grey
LOC101929622	grey
EIF4EBP1	pink
BAG4	green
WHSC1L1	grey
LETM2	grey
TACC1	yellow
PLEKHA2	brown
ADAM9	blue
IDO2	grey
C8orf4	yellow
POLB	yellow
LINC00293	grey
LOC100287846	grey
MCM4	brown
FLJ46365	grey
SNTG1	turquoise
LOC101929341	grey
NPBWR1	grey
LYN	blue
LINC01606	grey
LOC286177	grey
UBXN2B	green
SDCBP	blue
LOC100505501	grey
MIR4470	grey
NKAIN3	grey
LOC102724612	grey
MIR124-2	grey
DNAJC5B	grey
TRIM55	green
C8orf46	turquoise
C8orf46	green
C8orf44-SGK3	turquoise
PREX2	yellow
TRAM1	grey
LACTB2-AS1	grey
XKR9	grey
KCNB2	grey
LOC101926908	grey
MIR2052HG	red
PI15	grey
ZC2HC1A	blue

STMN2	grey
ZBTB10	yellow
LRRCC1	grey
CA13	green
CA3	grey
CA2	grey
RIPK2	blue
MIR4661	grey
INTS8	turquoise
PLEKHF2	brown
LAPTM4B	grey
ERICH5	grey
SPAG1	red
NACAP1	grey
LOC104054148	grey
FLJ45248	grey
ATP6V1C1	brown
MIR3151	grey
FZD6	brown
DCAF13	brown
DCSTAMP	grey
OXR1	yellow
PKHD1L1	grey
LOC100132813	yellow
RAD21-AS1	grey
MAL2	green
DEPTOR	green
COL14A1	blue
LOC101927543	green
TBC1D31	brown
WDYHV1	turquoise
TRMT12	green
ZNF572	turquoise
SQLE	red
TRIB1	yellow
POU5F1B	grey
MYC	yellow
MIR1205	grey
MIR1208	grey
LOC101927822	grey
ZFAT-AS1	grey
LINC01300	grey
MIR4472-1	grey
THEM6	grey
LY6E	grey
C8orf31	grey
GLI4	grey
RHPN1	grey
EEF1D	grey
ZNF707	grey
SCX	grey

GPT	green
LOC728323	turquoise
RPL23AP53	turquoise
TDRP	turquoise
LOC101928058	grey
LOC101927815	grey
ANGPT2	blue
DEFB1	grey
DEFA1B	grey
DEFA1B	grey
FAM66B	grey
MIR548I3	green
PPP1R3B	green
PRSS51	grey
SOX7	grey
XKR6	grey
MIR598	grey
LOC441268	grey
FAM90A25P	grey
LONRF1	yellow
MIR3926-1	grey
MIR383	grey
MSR1	blue
MTMR7	grey
MTUS1	yellow
MIR548V	yellow
FGL1	red
ASAH1	blue
PSD3	magenta
CSGALNACT1	grey
GFRA2	blue
REEP4	pink
LOC286058	grey
TNFRSF10B	yellow
TNFRSF10D	grey
KCTD9	yellow
ADRA1A	yellow
TRIM35	yellow
CHRNA2	grey
MIR3622B	grey
SCARA5	grey
NUGGC	turquoise
MIR4288	grey
EXTL3-AS1	grey
DUSP4	grey
LINC00589	grey
TEX15	grey
FUT10	turquoise
RNF122	yellow
DUSP26	grey
LINC01605	grey

LOC728024	grey
FGFR1	yellow
RNF5P1	grey
TM2D2	brown
LOC102723729	grey
NKX6-3	grey
DKK4	grey
SLC20A2	green
CHRNA6	grey
CEBPD	yellow
SNAI2	grey
RB1CC1	yellow
LOC100507516	grey
ATP6V1H	yellow
LOC100129098	grey
SBF1P1	grey
MOS	grey
PLAG1	grey
SDR16C6P	grey
CYP7A1	grey
TOX	blue
LOC100130298	grey
GGH	grey
LOC101929675	grey
CYP7B1	brown
PDE7A	blue
LOC102724687	green
RRS1-AS1	grey
MYBL1	blue
PTTG3P	grey
SNHG6	blue
SLCO5A1	grey
PRDM14	grey
LACTB2	grey
TCEB1	grey
CASC9	grey
ZFH4-AS1	grey
PKIA-AS1	grey
IL7	blue
HEY1	grey
LOC101927040	grey
ZNF704	grey
PAG1	red
PMP2	grey
FABP4	grey
IMPA1	turquoise
SLC10A5	turquoise
ZFAND1	brown
SNX16	brown
C8orf59	brown
CA3-AS1	grey

LINC01030	grey
C8orf88	grey
RUNX1T1	grey
LINC00535	grey
FP6628	turquoise
RBM12B	turquoise
MIR378D2	grey
GEM	grey
RAD54B	turquoise
CCNE2	yellow
TP53INP1	yellow
C8orf37	blue
LOC100500773	grey
TSPYL5	grey
SNORA72	black
NIPAL2	blue
STK3	magenta
RNF19A	yellow
RRM2B	brown
KLF10	yellow
AZIN1	yellow
SLC25A32	brown
SYBU	yellow
LINC01608	grey
TRPS1	blue
EXT1	blue
SAMD12	turquoise
TNFRSF11B	blue
LOC101927513	green
ENPP2	red
ENPP2	red
HAS2	grey
FAM83A-AS1	yellow
ATAD2	yellow
MIR548D1	grey
FBXO32	grey
ANXA13	grey
FER1L6-AS1	grey
TMEM65	yellow
RNF139-AS1	grey
TATDN1	turquoise
LINC00861	blue
FAM49B	brown
ASAP1-IT2	grey
OC90	grey
OC90	grey
TMEM71	yellow
SLA	yellow
NDRG1	grey
ST3GAL1	green
CASC7	brown

MIR151A	grey
LOC101927963	grey
LOC401480	grey
MIR1302-7	grey
LOC100288181	grey
LYPD2	grey
LYNX1	grey
CYP11B2	grey
LOC100133669	green
MINCR	green
ZC3H3	grey
MIR4664	grey
EPPK1	grey
DGAT1	red
SCRT1	grey
MIR1234	grey
ZNF251	green
ZNF34	grey
LOC100130027	grey
ZNF250	turquoise
ZNF252P	brown
DOCK8	blue
VLDLR	red
RFX3-AS1	turquoise
RFX3-AS1	turquoise
GLIS3-AS1	grey
SLC1A1	yellow
CDC37L1	yellow
RCL1	yellow
MIR101-2	yellow
JAK2	turquoise
CD274	blue
PDCD1LG2	blue
IL33	blue
TPD52L3	grey
LURAP1L	yellow
LOC389705	grey
CNTLN	magenta
DENND4C	brown
ACER2	grey
MIR491	grey
MTAP	grey
DMRTA1	green
LINC01239	turquoise
TEK	brown
TAF1L	grey
DNAJA1	red
SPINK4	grey
ANXA2P2	blue
PRSS3	grey
GALT	green

LOC730098	grey
C9orf131	grey
RUSC2	grey
LOC101926948	grey
NPR2	grey
HRCT1	grey
LINC00961	grey
RECK	blue
GLIPR2	blue
EBLN3	brown
POLR1E	brown
ALDH1B1	brown
LOC101927042	grey
FAM74A7	grey
ANKRD20A3	grey
CBWD5	yellow
LOC101929959	turquoise
KGFLP1	grey
GLIDR	grey
LINC01410	grey
FRG1HP	turquoise
LOC102725139	grey
PGM5	grey
PIP5K1B	grey
MAMDC2	grey
SMC5	yellow
C9orf85	brown
GDA	brown
ANXA1	blue
OSTF1	blue
PCSK5	red
RPSAP9	grey
VPS13A	turquoise
CEP78	brown
PSAT1	green
LINC01507	grey
SPATA31D5P	grey
SPATA31D4	grey
SPATA31D3	grey
SPATA31D1	grey
IDNK	red
LOC101927575	grey
NTRK2	grey
LOC389765	turquoise
DAPK1	magenta
DAPK1-IT1	turquoise
CTSL	yellow
SPATA31C1	grey
CKS2	grey
GADD45G	yellow
UNQ6494	grey

LINC00484	grey
CENPP	brown
ANKRD19P	grey
FGD3	grey
SUSD3	magenta
LOC101928014	grey
BARX1-AS1	grey
MIRLET7A1	grey
MIRLET7F1	yellow
MIRLET7D	grey
LOC100132077	grey
MFSD14B	brown
PCAT7	grey
C9orf3	red
MIR2278	grey
C9orf3	turquoise
MIR23B	turquoise
MIR27B	turquoise
HABP4	grey
LOC100132781	grey
LOC441454	grey
NUTM2G	grey
TMOD1	yellow
NCBP1	turquoise
NANS	red
TGFBR1	brown
NR4A3	yellow
STX17	turquoise
LOC105376177	grey
PLPPR1	grey
ZNF189	yellow
SMC2	brown
NIPSNAP3A	brown
NIPSNAP3B	turquoise
SLC44A1	brown
TAL2	grey
TMEM38B	brown
ZNF462	blue
FAM206A	brown
ZNF483	grey
UGCG	brown
MIR4668	yellow
HSDL2	brown
FAM225A	grey
SLC31A2	blue
SLC31A1	brown
C9orf43	grey
COL27A1	turquoise
C9orf91	red
TRIM32	green
LOC101928797	green

TLR4	blue
LOC100288842	turquoise
PSMD5-AS1	turquoise
LOC102723324	grey
MRRF	yellow
PTGS1	blue
OR1L4	grey
OR1K1	grey
GPR21	grey
NEK6	turquoise
MIR181A2HG	grey
MIR181A2	grey
MIR181B2	turquoise
OLFML2A	grey
RABEPK	magenta
MVB12B	green
LMX1B	grey
ZBTB43	yellow
LRSAM1	red
STXBP1	blue
SLC25A25	yellow
DNM1	grey
PKN3	grey
PHYHD1	grey
DOLPP1	green
LOC105376289	grey
LOC101929331	grey
C9orf106	red
LINC01503	grey
TOR1B	red
LOC100129785	grey
ASS1	grey
FUBP3	red
AIF1L	grey
SNORD62A	black
SNORD62A	black
STKLD1	grey
DBH	grey
WDR5	green
LOC101928384	grey
RXRA	green
LOC100506532	grey
FCN2	grey
C9orf62	grey
OBP2A	grey
PAEP	grey
LCN9	grey
MIR126	grey
LOC100128593	grey
MIR4292	grey
C9orf172	grey

MAMDC4	red
PTGDS	grey
TUBB4B	green
EHMT1-IT1	turquoise
TUBBP5	grey
LINC01388	grey
RFX3	brown
GLIS3	grey
SPATA6L	yellow
AK3	brown
RLN1	grey
ERMP1	brown
GLDC	red
PTPRD	turquoise
ZDHHC21	turquoise
CER1	grey
TTC39B	red
HAUS6	turquoise
SCARNA8	black
PLIN2	red
MLLT3	grey
MIR4473	grey
HACD4	blue
IFNA4	grey
IFNA16	grey
IFNA14	grey
IFNA5	grey
IFNA13	grey
MIR31	grey
LOC101929563	grey
ELAVL2	grey
CAAP1	brown
IFT74-AS1	grey
LRRC19	grey
MOB3B	grey
C9orf72	yellow
MIR873	grey
DDX58	blue
NDUFB6	grey
TAF1L	grey
B4GALT1	yellow
AQP3	grey
UBE2R2-AS1	grey
SNORD121A	black
KIAA1161	green
ENHO	grey
CNTFR	grey
ARID3C	green
SIGMAR1	pink
CCL19	blue
CCL21	blue

FAM205A	grey
FAM205BP	grey
VCP	brown
CD72	blue
OR13J1	grey
OR2S2	grey
GNE	magenta
MIR4540	grey
SHB	pink
IGFBPL1	grey
ZNF658	turquoise
KGFLP2	grey
FAM95B1	grey
ANKRD20A3	grey
LOC102723678	grey
CNTNAP3B	grey
LINC00537	grey
LOC403323	grey
AQP7P1	grey
FRG1JP	grey
MIR1299	turquoise
LOC440896	grey
LOC101929959	turquoise
LOC101929959	turquoise
LOC101929959	turquoise
CBWD5	yellow
PGM5-AS1	grey
TMEM252	grey
PRKACG	grey
APBA1	yellow
MAMDC2-AS1	grey
SMC5-AS1	turquoise
KLF9	yellow
TMEM2	yellow
ZFAND5	yellow
LINC01474	turquoise
LOC105376081	grey
LOC105376081	grey
C9orf40	grey
NMRK1	turquoise
RFK	brown
GNA14	brown
TLE1	yellow
SPATA31B1P	grey
RASEF	grey
C9orf64	brown
AGTPBP1	brown
GOLM1	blue
ZCCHC6	yellow
GAS1	grey
LOC440173	grey

LOC494127	grey
LOC102724156	grey
MIR4289	grey
MIR4290HG	grey
MIR4290	grey
NFIL3	yellow
SNORA84	black
OGN	grey
OMD	grey
ASPN	blue
ECM2	magenta
ZNF484	brown
LOC101927993	grey
NINJ1	blue
C9orf129	grey
FBP2	grey
FANCC	magenta
LINC00476	turquoise
LINC00476	turquoise
HSD17B3	turquoise
AAED1	blue
ZNF782	turquoise
LOC105376166	grey
ANKRD18CP	grey
XPA	grey
PTCSC2	grey
TRIM14	pink
CORO2A	grey
TBC1D2	grey
STX17-AS1	green
TEX10	brown
OR13C4	grey
OR13C3	grey
ABCA1	yellow
LOC340512	grey
ACTL7B	grey
CTNNAL1	brown
TMEM245	yellow
MIR32	yellow
FRRS1L	grey
EPB41L4B	yellow
PTPN3	turquoise
MIR3927	grey
C9orf152	grey
TXN	grey
SVEP1	blue
LPAR1	grey
SUSD1	blue
SLC46A2	grey
ZFP37	grey
FAM225B	grey

HDHD3	green
ALAD	green
KIF12	green
LOC100505478	grey
TNFSF8	blue
TNC	grey
SNORA70C	grey
BRINP1	grey
MIR147A	grey
MEGF9	red
PSMD5	brown
GSN-AS1	grey
STOM	yellow
GGTA1P	blue
MIR4478	grey
OR1N1	grey
OR1B1	grey
SNORD90	black
STRBP	green
MIR601	turquoise
NR5A1	grey
NR6A1	grey
SCAI	turquoise
HSPA5	brown
ANGPTL2	blue
RPL12	grey
SNORA65	black
MIR3911	grey
ENG	blue
DPM2	red
FAM102A	red
SLC25A25-AS1	grey
MIR219A2	grey
DOLK	pink
PTGES	grey
TOR1A	brown
LOC100272217	grey
UCK1	pink
TTF1	turquoise
OBP2B	grey
FAM163B	grey
DBH-AS1	green
SARDH	green
RNU6ATAC	black
MIR3689E	grey
MIR3689F	grey
LOC101928525	grey
LHX3	grey
DKFZP434A062	grey
DNLZ	grey
CARD9	grey

MIR4673	grey
LINC01451	grey
AGPAT2	pink
LCN10	grey
CLIC3	grey
FUT7	grey
TMEM210	grey
TPRN	grey
RNF208	grey
NRARP	grey
NSMF	grey
PNPLA7	grey
FAM163B	grey
UIMC1	grey
ND6	grey
FLJ43315	grey
ANKRD20A9P	grey
LOC101927648	grey
LOC100233156	grey
LOC389834	grey
LOC105379477	grey
LOC100507412	grey
LOC100507395	grey
LINC00960	grey
LOC102723630	grey
DUX4	grey
LINC00685	grey
MIR3690	grey
CD99P1	turquoise
GYG2	grey
ARSF	grey
LINC01546	grey
PRKX-AS1	grey
STS	red
VCX3B	grey
CLDN34	grey
HCCS	brown
PRPS2	grey
TLR7	grey
TLR8	blue
TMSB4X	blue
RAB9A	yellow
MOSPD2	brown
CA5BP1	brown
CA5B	turquoise
GRPR	grey
SYAP1	brown
NHS	grey
SCML1	yellow
PPEF1	grey
CNKSR2	grey

MBTPS2	brown
YY2	grey
PTCHD1	grey
SAT1	yellow
ZFX	red
SUPT20HL1	grey
PDK3	brown
PCYT1B-AS1	grey
SCARNA23	black
MAGEB18	grey
IL1RAPL1	grey
MAGEB2	grey
MAGEB3	grey
FAM47B	grey
CFAP47	grey
FAM47C	grey
CYBB	blue
HYPM	grey
SYTL5	grey
OTC	red
TSPAN7	blue
MID1IP1	green
MIR3937	grey
MIR1587	grey
ATP6AP2	brown
USP9X	yellow
DDX3X	red
GPR34	blue
GPR82	blue
MAOA	magenta
KDM6A	blue
KRBOX4	turquoise
ZNF674-AS1	brown
CHST7	grey
RP2	brown
ZNF157	grey
TIMP1	blue
UXT-AS1	green
ZNF81	turquoise
SPACA5	grey
EBP	red
GLOD5	grey
PLP2	blue
GAGE10	grey
GAGE12F	grey
GAGE1	grey
GAGE12F	grey
MIR532	grey
MIR188	grey
MIR500A	grey
MIR362	grey

MIR501	grey
MIR500B	grey
MIR502	grey
NUDT10	grey
CXorf67	grey
GSPT2	grey
MAGED1	pink
SSX8	grey
TSPYL2	yellow
GNL3L	grey
SNORA11	black
APEX2	pink
PAGE2B	grey
PAGE2	grey
PAGE5	grey
MAGEH1	brown
FOXR2	grey
RRAGB	turquoise
KLF8	grey
LINC01420	blue
FAAH2	yellow
ZXDB	yellow
ZC3H12B	grey
MSN	blue
AR	magenta
YIPF6	brown
EFNB1	grey
LINC00269	grey
MIR676	grey
OTUD6A	grey
AWAT1	grey
KIF4A	grey
GJB1	green
ACRC	turquoise
RPS26P11	grey
FLJ44635	grey
PIN4	grey
PABPC1L2B	grey
PABPC1L2B-AS1	grey
CHIC1	grey
TSIX	grey
JPX	red
ZCCHC13	grey
SLC16A2	pink
UPRT	brown
GPR174	blue
TBX22	grey
SH3BGRL	blue
UBE2DNL	grey
MIR1321	grey
RPA4	grey

TNMD	grey
SRPX2	yellow
CSTF2	grey
TMEM35	grey
CENPI	grey
ARMCX4	turquoise
ARMCX1	grey
ARMCX3	yellow
TCEAL2	grey
NXF4	grey
GPRASP1	grey
BHLHB9	grey
LINC00630	turquoise
BEX4	blue
TCEAL7	grey
TCEAL9	blue
LL0XNC01-250H12.3	grey
TCEAL3	grey
TCEAL3	grey
TCEAL3	grey
MORF4L2-AS1	grey
IL1RAPL2	grey
MUM1L1	grey
MIR548AN	grey
RNF128	brown
TBC1D8B	turquoise
CLDN2	red
FRMPD3	grey
PRPS1	brown
ATG4A	brown
TMEM164	grey
RGAG1	grey
PAK3	grey
LINC00890	grey
ALG13	turquoise
ZCCHC16	grey
SNORA35	grey
MIR1298	grey
RBMXL3	grey
LUZP4	grey
WDR44	brown
DOCK11	blue
LINC01285	grey
LONRF3	grey
UBE2A	brown
NDUFA1	black
RHOXF1-AS1	grey
ZBTB33	red
GLUD2	grey
GRIA3	grey
STAG2	yellow

SH2D1A	grey
OCRL	turquoise
XPNPEP2	grey
UTP14A	grey
FAM45BP	grey
RAP2C-AS1	red
HPRT1	magenta
FAM127A	grey
ZNF75D	grey
ZNF449	brown
LOC100506790	grey
SMIM10L2A	grey
CT45A1	grey
SLC9A6	brown
BRS3	grey
VGLL1	grey
MIR934	grey
LINC00892	grey
CD40LG	grey
FGF13-AS1	grey
SRD5A1P1	grey
SPANXB1	grey
SPANXB1	grey
SPANXA1	grey
MAGEC3	grey
MAGEC1	grey
SPANXN4	grey
MAGEA11	grey
MIR2114	grey
MAMLD1	green
HMGB3	blue
MIR4330	grey
CNGA2	grey
MAGEA4	grey
MAGEA6	grey
NSDHL	red
ZFP92	grey
BGN	pink
ATP2B3	grey
DUSP9	grey
LCA10	grey
HCFC1-AS1	grey
OPN1LW	grey
TKTL1	grey
EMD	brown
IKBKG	grey
F8A1	grey
BRCC3	brown
TMLHE	brown
F8A1	pink
MIR1184-1	grey

TMLHE-AS1	green
P2RY8	grey
ARSD	red
ARSE	grey
MXRA5	brown
PRKX	brown
PUDP	red
PNPLA4	red
VCX2	grey
FAM9A	grey
FAM9B	grey
MID1	yellow
SQSTM1	grey
TRAPPC2	brown
GEMIN8	turquoise
LOC102724092	grey
PIR-FIGF	grey
ACE2	grey
TMEM27	grey
AP1S2	grey
NHS-AS1	grey
ADGRG2	red
EIF1AX	red
SCARNA9L	black
SMPX	grey
APOO	grey
KLHL15	yellow
ZFX-AS1	grey
CXorf21	blue
FTHL17	grey
FAM47A	grey
TMEM47	brown
SRPX	blue
RPGR	yellow
LOC100132831	grey
FUNDC1	grey
CXorf36	blue
MIR222	grey
SLC9A7	turquoise
SLC9A7	green
LINC01545	grey
CFP	blue
ZNF630	grey
ZNF630	turquoise
SLC38A5	grey
LOC101927635	green
LOC729275	grey
PIM2	blue
KCND1	grey
PRAF2	pink
CACNA1F	grey

FOXP3	grey
DGKK	grey
NUDT11	grey
SPANXN5	grey
XAGE3	grey
KDM5C	grey
PHF8	yellow
WNK3	red
PFKFB1	green
ALAS2	grey
MTRNR2L10	grey
USP51	grey
XAGE-4	grey
SPIN3	green
SPIN2A	grey
ZXDA	grey
ARHGEF9-IT1	grey
MIR1468	grey
AMER1	green
MTMR8	grey
FRMD8P1	grey
VSIG4	blue
EDA2R	grey
OPHN1	grey
PJA1	grey
DLG3-AS1	grey
IL2RG	blue
ZMYM3	green
INGX	grey
CXCR3	grey
RGAG4	grey
PHKA1	blue
MAP2K4P1	grey
XIST	grey
FTX	turquoise
MIR421	turquoise
MIR545	grey
ZDHHC15	grey
MIR325	grey
PGAM4	grey
TAF9B	magenta
CYSLTR1	blue
MIR4328	grey
HMG5	grey
MIR361	grey
NAP1L3	grey
MIR548M	grey
BRDTP1	grey
TSPAN6	brown
SYTL4	yellow
TAF7L	grey

TIMM8A	turquoise
BTK	blue
GLA	blue
ARMCX6	blue
NXF5	grey
ZMAT1	turquoise
BEX1	grey
NXF3	grey
BEX2	grey
GLRA4	grey
LOC286437	turquoise
TEX13A	grey
SERPINA7	red
MORC4	red
RIPPLY1	grey
NUP62CL	grey
TSC22D3	yellow
TEX13B	grey
ACSL4	red
AMMECR1	green
SNORD96B	grey
CHRD1	grey
CAPN6	grey
DCX	grey
TRPC5	grey
AMOT	green
IL13RA2	brown
PLS3-AS1	grey
DANT2	grey
CT83	grey
KLHL13	magenta
CXorf56	grey
NKRF	grey
SEPT6	blue
MIR766	grey
NKAP	turquoise
NKAPP1	turquoise
CT47B1	grey
CT47A10	grey
TENM1	turquoise
DCAF12L2	grey
DCAF12L1	grey
ZNF280C	brown
GPR119	grey
FRMD7	red
MBNL3	magenta
TFDP3	grey
GPC4	grey
GPC3	grey
MOSPD1	brown
FAM127C	grey

FAM127B	grey
SMIM10L2B	grey
LINC00633	grey
ZNF75D	turquoise
CT45A6	grey
MMGT1	blue
ARHGEF6	blue
SNORD61	black
MIR504	grey
ATP11C	green
MIR505	green
SOX3	grey
CDR1	grey
SPANXA1	grey
SPANXA1	grey
SPANXC	grey
MAGEC2	grey
SPANXN3	grey
MIR891A	grey
MIR513C	grey
MIR513A1	grey
MIR513A2	grey
MIR506	grey
MIR509-1	grey
MIR509-3	grey
MIR509-1	grey
MIR514A1	grey
LINC00893	turquoise
LOC101928917	grey
MAGEA8-AS1	grey
GABRE	grey
GABRA3	grey
MIR105-2	grey
CETN2	grey
MAGEA1	grey
TREX2	grey
HAUS7	grey
BCAP31	red
FLNA	blue
LAGE3	grey
CTAG2	grey
GAB3	blue
MPP1	red
F8	blue
MIR1184-1	grey
RAB39B	grey
CLIC2	blue
MIR1184-1	grey
F8A1	pink
PLCXD1	grey
LINC00685	grey

CSF2RA	yellow
MIR3690	grey
RPS4Y1	grey
ZFY	grey
LINC00278	grey
TGIF2LY	grey
TSPY2	grey
TBL1Y	grey
PRKY	grey
TTTY22	grey
TTTY15	grey
USP9Y	grey
DDX3Y	grey
TMSB4Y	grey
CDY2A	grey
FAM224A	grey
TXLNGY	grey
EIF1AY	grey
RBMV2FP	grey
RBMV2FP	grey
TTTY4	grey
BPY2B	grey
DAZ4	grey
TTTY4	grey
BPY2B	grey
DAZ4	grey
SPRY3	grey
SRY	grey
LINC00280	grey
AMELY	grey
TTTY18	grey
RBMV3AP	grey
GYG2P1	grey
UTY	grey
NLGN4Y-AS1	grey
FAM224A	grey
TTTY14	grey
TTTY14	grey
CD24	grey
KDM5D	grey
TTTY10	grey
PRORY	grey
RBMV2EP	grey
TTTY13	grey
DAZ4	grey
DAZ4	grey
BPY2B	grey
TTTY4	grey
LOC400743	grey
LOC100507664	green
LOC100506257	grey

LOC101929787	turquoise
TMCC2	grey
LOC100287497	turquoise
LINC01000	turquoise
LOC440742	grey
LOC100132147	grey
MIG7	grey
LOC100131107	grey
LINC00083	grey
LOC100506571	grey
PP2672	grey
PLXDC2	blue
LOC100289455	grey
GOLGA7B	grey
LOC100506255	turquoise
LOC100507445	grey
LOC100507663	turquoise
LOC387720	grey
LINC01166	grey
LOC171391	green
LOC102723539	grey
PRDM11	grey
LOC100129473	grey
LOC399900	grey
ZBTB16	yellow
LOC100131262	green
MIR194-2	grey
LOC100131541	grey
LOC100130428	turquoise
LOC100130507	grey
LOC100505923	turquoise
SCN8A	grey
HBCBP	grey
LOC100128816	grey
EIF4B	magenta
LOC400590	yellow
LOC100128840	grey
LINC00543	grey
GAS6-AS1	grey
KRTAP21-1	grey
LOC392364	grey
ANKRD10-IT1	turquoise
PCID2	turquoise
PPP2R5C	grey
LOC283588	grey
TMEM179	grey
LOC101929634	grey
GOLGA8J	grey
GOLGA8J	grey
OXR1	yellow
LOC100507079	turquoise

AGVR6190	grey
CHRNA3	grey
ADAMTS7P1	grey
ARPIN	grey
LOC440313	grey
GS52	grey
MMP25-AS1	grey
NPIP3	turquoise
LOC729159	grey
CDYL2	grey
PSMD3	grey
CNP	grey
DND1	grey
LOC100129503	grey
HEXDC-IT1	grey
MAGOH2P	turquoise
LOC100507131	grey
LOC100132174	grey
LOC100507494	grey
DND1	grey
MAPT-IT1	grey
SPPL2C	grey
DND1	grey
FAM104B	grey
SLC35G6	grey
RNF165	grey
C18orf12	grey
FLJ21369	yellow
LOC100130856	grey
LOC100293044	turquoise
PLA2G4C	grey
LOC100131373	grey
LOC100131131	turquoise
DUXAP10	grey
LOC100128905	grey
LOC729770	grey
LOC285097	grey
PDIA6	grey
LOC100130502	grey
HMGA1	grey
LOC101928152	grey
LOC643085	grey
CYP4F30P	grey
LOC100128563	grey
LOC100130156	grey
LOC100131174	grey
LOC400590	grey
LINC00315	grey
LINC01311	grey
LOC646513	grey
LOC84843	grey

POM121L8P	grey
LOC100652901	turquoise
KIAA1656	grey
LOC100131802	turquoise
TBC1D22A-AS1	grey
LOC728290	magenta
LOC440982	grey
LOC100508227	turquoise
BRK1	grey
LOC105377021	grey
LOC100129516	grey
LOC100131826	turquoise
LINC01061	turquoise
CRMP1	grey
LOC100507209	turquoise
FLJ38576	grey
PDCD6	grey
LOC441081	grey
LOC441081	grey
LOC441081	grey
LOC100128482	grey
LOC100128340	grey
LOC100506766	green
LOC100128508	brown
LOC100506217	grey
LOC441081	grey
LOC441081	grey
LOC100129233	grey
LOC100133106	grey
QIQN5815	grey
LOC166994	grey
LOC401261	turquoise
ZNF451	turquoise
LOC100506276	grey
LOC441179	grey
NEDD9	yellow
HCG8	green
HCG8	green
HCG8	green
HCG8	green
HCG8	green
HCG8	green
HCG8	green
HCG8	green
HCG8	green
LOC84214	grey
LOC644794	turquoise
PTN	grey
LOC100506458	turquoise
LOC100131372	grey
LOC100128653	grey
LOC100128364	grey

LINC01000	turquoise
LINC01000	turquoise
LOC401357	grey
LINC01000	turquoise
MGC27345	turquoise
NAG20	grey
LOC401442	black
TNKS	turquoise
FLJ45248	grey
LOC100129596	grey
DDX11L5	grey
GVQW1	grey
LOC100130458	grey
FAM27E3	grey
C9orf3	turquoise
LOC100129999	grey
MGC24103	grey
LOC648570	grey
FAM27E2	grey
FP2234	turquoise
CDC14B	yellow
ZNF322	turquoise
LINC01451	grey
LOC651337	grey
TXLNGY	grey
TEKT4P2	grey
MIR4418	grey
SNORD55	black
SNORD38A	black
SNORD38B	black
MIR1273F	green
MIR4781	grey
SNORD45C	blue
SNORD45A	black
RABGGTB	black
SNORD21	black
SNORA61	black
SNORA44	black
SNORA16A	black
MIR3671	turquoise
SNORD81	black
SNORD47	black
SNORD80	black
SNORD81	black
SNORD44	black
SNORD76	black
SNORD74	black
AURKAPS1	turquoise
CAMK1D	grey
MIR1254-2	grey
SNORD98	turquoise

MIR4296	grey
SNORA52	black
SNORA3A	black
MIR3159	grey
MIR612	turquoise
MIR4489	grey
SNORD15A	black
SNORD97	black
SNORD14B	black
MIR1908	grey
SNORD22	black
SNORD31	black
SNORD30	black
SNORD28	black
SNORD27	black
SNORD26	black
MIR326	grey
SNORA25	black
SNORA32	grey
SNORA1	black
SNORD5	black
SNORA18	black
SNORD14C	black
MIR614	grey
SNORA53	black
SLC25A3	grey
SCARNA12	black
MIR15A	turquoise
MIR3665	grey
SNORD112	brown
MIR4710	grey
SNRPN	grey
MIR4515	grey
MIR4716	grey
FLJ10038	turquoise
MIR4514	grey
MIR4516	grey
MIR4718	grey
MIR4518	grey
MIR3180-4	grey
MIR328	grey
SNORA67	black
MIR4521	grey
SNORD49A	black
SNORD65	black
SNORD42B	black
SNORD4A	black
MIR423	grey
MIR2909	turquoise
SNORD1C	black
SCARNA16	black

MIR4740	grey
MIR4526	grey
MIR3190	grey
SNORD23	grey
SNAR-C2	grey
SNAR-C2	grey
SNORD34	black
SNORD35A	black
MIR4530	grey
MIR642B	grey
MIR3127	grey
SNORA41	black
MIR4266	grey
MIR4267	grey
MIR4784	grey
MIR933	grey
MIR4437	grey
SNORD110	black
SNORA51	black
SNORD56	black
SNORD57	black
SNORA71E	grey
MIR548O2	turquoise
MIR3194	grey
MIR1914	grey
MIR130B	grey
MIR3928	grey
SNORD83B	black
SNORD43	black
SNORA6	black
SNORD19B	brown
MIR1224	grey
SNORA81	black
SNORA4	black
MIR4270	grey
MIR4442	grey
MIR3137	grey
RNPS1	grey
MIR574	grey
MIR4451	grey
RPS3A	black
MIR4454	grey
MIR3607	yellow
MIR4637	yellow
MIR4279	grey
LOC100132356	turquoise
SNORD96A	black
SNORD95	black
SNORD48	black
SNORD52	black
SNORD84	black

SNORD50A	black
SNORD50B	turquoise
SNORA20	black
SNORA29	brown
SNORD48	black
SNORD52	black
SNORD48	black
SNORD52	black
SNORD48	black
SNORD52	black
SNORD84	black
MIR3147	grey
MIR4653	grey
MIR4467	grey
ST7	brown
SND1-IT1	turquoise
IL23A	grey
IL23A	grey
MIR4655	grey
SNORD54	black
SNORD87	black
ERVK-7	grey
MIR1234	grey
MIR24-1	red
MIR2861	grey
SNORD24	black
SNORD36B	black
SNORD36A	black
SNORD36C	black
MIR4292	grey
MIR7-1	grey
MIR4673	grey
MIR3621	grey
MIR1587	grey
SNORA11D	grey
SNORA70	black
SNORA36A	black
SNORA11D	grey
MIR224	grey
SEPT7P2	turquoise
LINC00337	grey
MST1P2	grey
GBP1P1	grey
GBP1	grey
LOC105379426	turquoise
LOC105379426	turquoise
FLJ43315	grey
LOC101927345	grey
PDE4DIP	magenta
LOC654342	turquoise
PDE4DIP	magenta

LOC100996724	magenta
LINC00869	turquoise
RPS27A	grey
LOC284581	grey
SEPT7P2	turquoise
CFAP74	grey
CROCCP2	turquoise
CROCCP2	turquoise
CROCCP2	turquoise
PDE4DIP	green
PDE4DIP	green
TRABD2B	grey
LOC102724125	grey
LINC01359	turquoise
LINC01359	turquoise
PSAT1	grey
NRBF2	yellow
ANKRD20A9P	turquoise
LOC101929798	grey
ERVK-7	green
FCRL5	grey
FBXO25	brown
CDKN2AIPNL	brown
MIR3916	turquoise
MIR3916	turquoise
MIR3916	turquoise
MIR3916	turquoise
SEPT7P2	turquoise
LOC100287934	turquoise
LOC100288175	grey
PRAMEF10	grey
LINC00339	grey
LOC101928303	grey
LOC101928303	grey
FLJ43315	grey
ANKRD20A12P	turquoise
LOC101060632	grey
LOC100132057	turquoise
LOC100132057	brown
LOC100132057	grey
LOC284581	grey
PRAMEF36P	grey
TRABD2B	grey
LINC01359	turquoise
ANKRD20A12P	grey
LOC102723382	grey
FLJ43315	grey
PARP8	turquoise
LINC01344	turquoise
LINC01347	turquoise
LINC01347	turquoise

LINC01347	turquoise
SVIL	grey
LOC100134822	turquoise
ANKRD30BP3	grey
NSUN6	turquoise
NSUN6	turquoise
LINC00264	grey
ZNF37BP	turquoise
BMS1P5	turquoise
BMS1P5	turquoise
BMS1P6	turquoise
PTPN20	turquoise
DBF4	brown
TMEM14B	brown
NUTM2B-AS1	turquoise
WDR11-AS1	grey
DMBT1P1	grey
NSUN6	turquoise
LOC283140	brown
LOC283140	grey
KRT18P59	grey
KRT18P59	grey
LOC101928344	turquoise
LOC101927853	grey
N6AMT1	grey
SNX7	brown
TRPC2	grey
NEAT1	turquoise
LOC283140	grey
FAM66C	grey
LOC374443	blue
LOC101929860	grey
TBX20	grey
LOC100507377	grey
TPTE2P6	grey
EEF1DP3	turquoise
LOC101929355	grey
MRPS31P5	turquoise
LINC00571	turquoise
LINC00639	grey
DUXAP10	grey
DUXAP10	grey
LINC01296	grey
LOC102723534	green
LOC102723534	turquoise
HERC2P3	turquoise
HERC2	turquoise
HERC2P9	turquoise
WHAMMP3	turquoise
LOC100130111	grey
GOLGA8M	turquoise

TCEB1	grey
CSPG4	grey
CSPG4	grey
SIN3A	brown
LOC100128108	blue
WHAMMP2	turquoise
GOLGA8J	turquoise
TJP1	green
GOLGA8O	turquoise
GOLGA8A	turquoise
GOLGA8A	turquoise
STRC	grey
SORD	green
PRKXP1	grey
PRKXP1	green
LOC101929047	turquoise
PKD1	grey
PKD1	grey
PKD1	grey
SNX29	magenta
ARHGAP23	grey
HERC2	turquoise
HERC2	turquoise
HERC2P4	turquoise
HERC2	turquoise
BCAP31	red
BCAP31	red
RHPN2	yellow
VPS35	brown
RPL23AP87	turquoise
ERVK13-1	turquoise
ACSM5	red
SMG1P5	turquoise
SMG1	turquoise
SMG1P1	turquoise
SMG1	turquoise
HERC2	turquoise
HERC2	turquoise
HERC2	turquoise
HERC2	turquoise
HERC2	turquoise
LOC101929031	grey
BCAP31	red
LOC283856	grey
LOC283856	green
LOC283856	green
EBPL	grey
SLC22A31	grey
ALOX12P2	turquoise
LOC100996813	green
CCDC144A	turquoise

CCDC144A	turquoise
CCDC144A	turquoise
CCDC144A	turquoise
CCDC144A	turquoise
USP32P2	turquoise
FLJ36000	grey
LGALS9	blue
LGALS9	blue
LRRRC37BP1	brown
SMURF2	brown
WDR55	grey
LINC00674	turquoise
AMZ2	turquoise
USP32P2	turquoise
USP32P2	turquoise
USP32P2	turquoise
ZNF385C	black
RPS6KB1	brown
USP32	red
USP32	red
USP32	red
USP32	red
AMZ2P1	grey
AMZ2	grey
AMZ2P1	grey
IMMP1L	grey
USP6	turquoise
LOC400590	turquoise
LINC00483	grey
PDXDC2P	turquoise
LOC101929826	grey
TGFBR3L	grey
CS	pink
LOC101927151	grey
ZNF818P	grey
ZNF818P	grey
ZNF818P	grey
ZSCAN5B	grey
ZNF98	grey
ZNF302	turquoise
ZNF807	turquoise
LINC00665	grey
LINC00665	brown
LINC00665	grey
LINC00665	green
LINC00665	green
LINC00665	green
LINC00665	green
CEACAM22P	grey
LOC101059948	grey
RPS9	magenta
SIGLEC11	blue

LOC100507006	grey
WBP1	pink
ANKRD36	brown
ANKRD36BP2	brown
ANKRD36BP2	brown
ANKRD36BP2	brown
GGT1	grey
GGT1	green
GGT1	green
LINC01125	grey
LINC01125	turquoise
LOC440895	grey
RHOQ	blue
DARS-AS1	turquoise
LOC100505498	grey
LOC101927641	grey
LOC101927641	grey
LOC100996693	grey
LOC440934	grey
MROH2A	grey
CROCC2	grey
CROCC2	grey
LINC01237	grey
LINC01237	turquoise
LOC102723927	turquoise
LOC102723927	grey
FLJ36848	green
FLJ36848	green
ANKRD36B	brown
ANKRD36	brown
LOC100288570	pink
MIR4435-2HG	blue
MIR4435-2HG	blue
MIR4435-2HG	blue
MIR4435-2HG	blue
MIR4435-2HG	grey
MIR4435-2HG	blue
LOC101927260	grey
MIR4435-2HG	blue
MIR4435-2HG	grey
MIR4435-2HG	blue
LINC00152	blue
MIR4435-2HG	blue
LOC100506797	grey
RHOQ	blue
LOC101929378	turquoise
LINC00607	grey
LINC00607	grey
LOC100505498	grey
TEX41	grey
LOC100505498	grey

AOX2P	grey
AOX2P	grey
MROH2A	grey
REG1CP	grey
LOC100506123	brown
MIR4435-2HG	blue
MIR4435-2HG	grey
MIR4435-2HG	blue
MIR4435-2HG	blue
LINC00152	blue
LINC00152	grey
LINC00152	blue
LINC00607	grey
VN1R108P	turquoise
VN1R108P	turquoise
VN1R108P	turquoise
LOC101926935	grey
FAM182A	grey
MIR646HG	grey
FAM182B	grey
FAM182A	grey
OSER1-AS1	yellow
LOC729296	grey
MIR646HG	grey
LOC100132167	grey
ANKRD20A5P	grey
LOC101927843	magenta
LOC102724420	grey
LOC400867	yellow
ANKRD20A5P	turquoise
PIK3CA	yellow
PIK3CA	yellow
TPTEP1	grey
TPTEP1	brown
TPTEP1	turquoise
TPTEP1	grey
DGCR5	grey
DGCR5	green
DGCR5	grey
LOC440792	grey
LOC440792	grey
PPIL2	grey
MAD1L1	red
ADRBK2	green
ADRBK2	grey
LOC101927202	grey
LOC101927202	grey
SLC25A15	yellow
VWF	grey
VWF	grey
GGT1	green

GGT2	green
GGT1	magenta
PI4KAP1	grey
ZDHHC8P1	grey
GGTLC2	green
LOC105372969	grey
DGCR5	grey
LOC440792	yellow
MAD1L1	red
MAD1L1	red
LINC01296	grey
DUXAP10	grey
KCNMB3	turquoise
PI4KA	grey
FGD5	blue
TPM4	blue
TPM4	blue
LINC00693	grey
GEMIN2	brown
LINC00870	red
SOX2-OT	grey
ATMIN	grey
TRANK1	brown
TRANK1	brown
TRANK1	brown
TRANK1	brown
TRANK1	brown
PROS1	magenta
PROS1	magenta
ARMC10	brown
MAT2A	turquoise
LOC101927056	green
LOC101927056	turquoise
ALG1	pink
VEZF1	brown
LOC285389	grey
LOC285389	turquoise
LOC285389	turquoise
LOC285389	grey
LOC285389	red
LOC101928948	grey
EEF2KMT	brown
LINC01088	grey
CEP170	brown
LOC729218	grey
LOC100507487	turquoise
LOC100507487	turquoise
MTRF1L	brown
MTRF1L	brown
EVA1C	yellow
EVA1C	yellow

FAM86EP	brown
FAM86EP	grey
LOC100506990	turquoise
LOC100506990	turquoise
LOC102723415	grey
ZNF595	grey
RNF185	pink
LOC100507639	grey
SH3D19	grey
LOC101928509	grey
LOC728339	turquoise
LINC01088	grey
GUSBP5	grey
LOC285505	blue
GIMD1	grey
LOC100507639	grey
LOC100506272	grey
LOC101928858	yellow
LOC100289230	turquoise
ZNF800	grey
RPL10	grey
ZDHHC11	grey
ZDHHC11	grey
ZDHHC11	grey
ZDHHC11	turquoise
BRD9	grey
CTD-3080P12.3	grey
GUSBP2	turquoise
INTS6	brown
LOC285638	turquoise
LOC643201	red
LOC101928858	yellow
NAIP	blue
SMA4	brown
NAIP	blue
NAIP	blue
SMA4	brown
ZBED3-AS1	grey
LOC101926941	grey
GUSBP1	turquoise
SMA4	turquoise
LOC643201	red
LOC643201	grey
CYCS	blue
MEI4	grey
CCDC162P	grey
CCDC162P	grey
LOC102723944	grey
HLA-B	blue
LOC652990	green
LOC652990	grey

SMS	brown
LOC101928249	grey
LINC01277	turquoise
LPAL2	magenta
CCDC162P	grey
LOC102724205	grey
LOC553137	turquoise
LOC100422737	turquoise
LOC100422737	turquoise
LOC553137	turquoise
STXBP5-AS1	grey
CPAMD8	grey
LOC441204	grey
LOC650226	grey
GTF2IP12	magenta
SLC29A4	grey
LOC101929266	grey
INTS4	turquoise
INTS4P2	turquoise
LOC84214	grey
LOC101929580	turquoise
GTF2IP7	turquoise
DTX2	green
DTX2	turquoise
DTX2P1-UPK3BP1-PMS2P11	green
PMS2P10	green
LOC101928451	turquoise
LOC101928451	turquoise
TLK2	turquoise
TLK2	turquoise
LOC101928451	turquoise
LOC101928451	turquoise
LOC105375172	grey
SEPT7P2	turquoise
SEPT7P2	grey
SEPT7P2	turquoise
FKBP9	blue
SKP1	brown
RABGEF1	turquoise
LOC101929463	turquoise
SPDYE1	grey
FAM185A	turquoise
FAM185A	turquoise
FAM185A	turquoise
FAM185A	turquoise
FAM185A	turquoise
FLNC	grey
LINC-PINT	yellow
LOC285889	grey
LINC01006	grey
C7orf13	grey

ZNF815P	grey
LOC441204	grey
MYH16	grey
MGC4859	grey
LINC00174	turquoise
LOC101929463	turquoise
LINC-PINT	yellow
ZNF767P	turquoise
ZNF746	turquoise
LINC01006	magenta
FAM86B3P	grey
LOC157273	green
LINC01606	grey
LINC01606	grey
LOC101929488	grey
TPM4	blue
ASNS	grey
CNTNAP3B	blue
LOC100132167	green
LOC100132167	grey
KGFLP2	brown
AQP7P1	grey
FAM95B1	grey
LINC00963	blue
LOC105376292	grey
VLDLR-AS1	grey
VLDLR-AS1	grey
GXYLT1P3	grey
LOC101059935	grey
LOC102725070	turquoise
KGFLP2	turquoise
KGFLP1	brown
LOC403323	grey
AQP7P3	grey
LOC102724507	grey
LOC100509620	grey
BMS1P20	turquoise
BMS1P20	turquoise
LOC101929959	turquoise
BMS1P20	turquoise
LOC101929959	grey
AQP7P3	green
AQP7P3	grey
HSPB1	pink
HSPB1	pink
LOC441454	grey
LOC101926917	grey
LOC101928381	grey
LOC100132167	green
LOC101928381	grey
LOC100128077	blue

LOC101928381	grey
NAMA	grey
NAMA	grey
NAMA	grey
CD99P1	turquoise
JPX	turquoise
JPX	turquoise
JPX	grey
ARMCX4	turquoise
ARMCX4	turquoise
ARMCX4	turquoise
ARMCX4	turquoise
ARMCX4	turquoise
ARMCX4	grey
ARMCX4	grey
LINC00630	turquoise
LINC00630	turquoise
MFN1	brown
LINC00894	turquoise
LINC00894	turquoise
LOC389906	grey
LOC389906	grey
LOC100132831	grey
SMIM10L2B	grey
SNORD61	turquoise
ARMCX4	turquoise
LINC00894	turquoise
LINC00894	turquoise
LINC00894	turquoise
LINC00894	turquoise
FTX	turquoise
ANOS1	grey
ANOS1	grey
PPP1R12B	turquoise
LOC102723951	brown
UBE2Q2L	yellow
TTY14	grey
UBE2Q2P2	grey
PPP1R12B	turquoise
SLC25A15	yellow
HLA-K	grey
HLA-K	grey
MILR1	blue
LYPD8	grey
RPL31	grey
HIST1H2BN	pink
PRSS2	grey
LOC388692	turquoise
FRG1	brown
MIR194-2	grey
CACNG8	grey

ANKRD54	grey
MIR761	grey
FAM89A	grey
MIR1229	grey
MIR1247	grey
MIR1292	grey
MIR1909	grey
CCDC186	grey
MIR711	grey
TAS2R45	turquoise
MIR3135A	grey
LOC101927060	green
LOC100129503	grey
SRGAP2B	brown
LOC644083	grey
LOC646513	grey
LOC105379499	turquoise
LOC101930531	grey
ADAMTS7P1	grey
LOC644083	grey
MIR193BHG	grey
LOC101927060	green
LOC100129503	grey
ZNF814	turquoise
LOC105372482	grey
LOC646513	grey
LOC100287728	grey
MIR3605	grey
PECAM1	blue
MIR4632	grey
MIR4658	grey
MIR4417	grey
MIR4747	grey
ATF5	red
DKFZP434I0714	grey
MIR4454	grey
MIR3135B	grey
MIR4469	grey
MIR4793	grey
TRIM25	green
ZNF814	turquoise
LGALS2	grey
LOC100653233	grey
IGHG1	grey
C2orf27A	grey
LGALS2	grey
DUX1	grey
SNORA17A	black
SNORD49B	black
MIAT	grey
IPW	turquoise

SNHG1	grey
SNHG3	turquoise
YME1L1	grey
NEAT1	turquoise
COPG2IT1	turquoise
LINC01348	blue

Supplementary Table 3

	Baseline	1 year follow up	P-value
N (men/women)	21 (8/13)		
Age (years)	46.7 ± 15.2		
BMI (kg m ⁻²)	40.6 ± 4.9	29.3 ± 3.9	< 0.001
Body Weight (kg)	114.8 ± 21.1	82.3 ± 13.8	< 0.001
Lobular inflammation (score)	1.4 ± 0.6	0.2 ± 0.4	< 0.001
Ballooning (score)	1.4 ± 0.5	0.4 ± 0.6	< 0.001
Steatosis (score)	2.0 ± 0.9	0.2 ± 0.5	< 0.001
NAS score	4.9 ± 1.2	0.9 ± 1.3	< 0.001
Fasting glucose (mg dl ⁻¹)	88.7 ± 13.5	80.2 ± 8.7	0.01
2 hr postprandial glucose (mg dl ⁻¹)	143.4 ± 47.8	80.3 ± 24.6	< 0.001

Supplementary Table 4

	LSI responders			LSI non-responders		
	Baseline	Follow up	P-value	Baseline	Follow up	P-value
N (men/women)	10 (3/7)			10 (5/5)		
Age (years)	45.0 ± 13.9			45.7 ± 14.2		
BMI (kg m ⁻²)	40.3 ± 11.2	37.0 ± 10.5	0.002	38.0 ± 5.5	34.7 ± 5.5	0.01
Body Weight (kg)	113.9 ± 26.2	104.6 ± 24.6	0.001	112.2 ± 21.2	102.2 ± 18.4	0.04
Lobular inflammation (score)	1.6 ± 0.8	0.5 ± 0.7	0.01	1.6 ± 0.8	1.7 ± 0.5	NS
Ballooning (score)	1.7 ± 0.5	0.5 ± 0.5	0.003	1.4 ± 0.5	1.6 ± 0.5	NS
Steatosis (score)	1.6 ± 0.8	0.7 ± 0.8	0.058	2.5 ± 0.7	1.9 ± 0.6	NS
NAS score	4.9 ± 1.4	1.7 ± 1.9	0.006	5.5 ± 1.2	5.2 ± 1.1	NS
Fasting glucose (mg dl ⁻¹)	83.2 ± 17.9	84.2 ± 13.7	NS	80.1 ± 11.3	85.7 ± 6.6	NS
2 hr postprandial glucose (mg dl ⁻¹)	153.5 ± 45.5	120.3 ± 41.4	0.002	130.2 ± 19.1	131.0 ± 30.0	NS

Supplementary Table 5

	No NASH No T2D (a)	NASH No T2D (b)	No NASH T2D (c)	NASH T2D (d)
N (men/women)	10 (7/3)	11 (3/8)	7 (4/3)	10 (6/4)
Age (years)	49.8 ± 10.9	46.1 ± 10.9	61.8 ± 9.6 ^{ab}	57.9 ± 8.5 ^b
BMI (kg m ⁻²)	30.1 ± 8.2	33.6 ± 7.2	40.4 ± 8.6 ^a	34.1 ± 7.5
Lobular inflammation (score)	0.0 ± 0.0	1.2 ± 0.4 ^a	0.0 ± 0.0 ^b	1.4 ± 0.5 ^{ac}
Ballooning (score)	0.3 ± 0.5	1.5 ± 0.5 ^a	1.1 ± 0.7 ^a	1.9 ± 0.3 ^{abc}
Steatosis (score)	0.4 ± 0.7	2.5 ± 0.7 ^a	1.6 ± 1.1 ^a	2.3 ± 0.7 ^a
NAS score	0.8 ± 1.0	5.1 ± 0.9 ^a	2.7 ± 1.4 ^{ab}	5.5 ± 1.0 ^{ac}
Fasting glucose (mg dl ⁻¹)	87.7 ± 6.0	92.0 ± 10.1	105.3 ± 13.4 ^{ab}	138.6 ± 50.8 ^{ab}
2 hr postprandial glucose (mg dl ⁻¹)	113.7 ± 24.9	140.8 ± 19.4	237.7 ± 90.3 ^{ab}	250.8 ± 95.7 ^{ab}
Metformin treatment	0/10	1/11	3/7	6/10
Insulin treatment	0/10	0/11	1/7	0/10
Liver microarray	7/10	9/11	6/7	7/10

Supplementary Table 6. Primer Sequences Used in This Study

Gene	Forward	Reverse
<i>Ppia</i>	GCATACGGGTCCTGGCATCTTGTCC	ATGGTGATCTTCTTGCTGGTCTTGC
<i>Tbp</i>	TAGTCCAATGATGCCTTACGGC	TTGCTACTGCCTGCTGTTGTTG
<i>Il23a</i>	CCAGCAGCTCTCTCGGAATC	AAGCAGAACTGGCTGTTGTC
<i>Tnf</i>	GTCTACTGAACTTCGGGGTGA	CTCCTCCACTTGGTGGTTTG
<i>Ifit1</i>	GCTCTGCTGAAAACCCAGAGA	AAGGAACTGGACCTGCTCTGA
<i>Il1b</i>	AGGTGCTCATGTCCTCATCC	CAGGCAGGCAGTACTCACTCA
<i>Il18</i>	GGCTTTCTTTGTCCTGATGC	GGTTCTCTGTGGTTCCATGC
<i>Il33</i>	TCCTTGCTTGGCAGTATCCA	TGCTCAATGTGTCAACAGACG
<i>Csf1</i>	AGCATGGACAGGCAGGGAC	CTGCGTGCCTTTATGCCTTT
<i>Ccl2</i>	GCCAACTCTCACTGAAGCC	GCTGGTGAATGAGTAGCAGC
<i>Ccl5</i>	CCTGCTGCTTTGCCTACCTCT	ACTTGGCGGTTCCCTTCGAGT
<i>Cxcl10</i>	GGTCTGAGTGGGACTCAAGG	GTGGCAATGATCTCAACACG
<i>Mx1</i>	CTCTGGGTGTGGAGCAGGA	CAATACCACTGCCTCTGGGG
<i>Oas1a</i>	CAGCTGACCCAACAGGGAAT	TCGTGTCAGGAGCCTGCATT
<i>Cxcl10</i>	GGTCTGAGTGGGACTCAAGG	GTGGCAATGATCTCAACACG
<i>Mx1</i>	CTCTGGGTGTGGAGCAGGA	CAATACCACTGCCTCTGGGG
<i>Oas1a</i>	CAGCTGACCCAACAGGGAAT	TCGTGTCAGGAGCCTGCATT