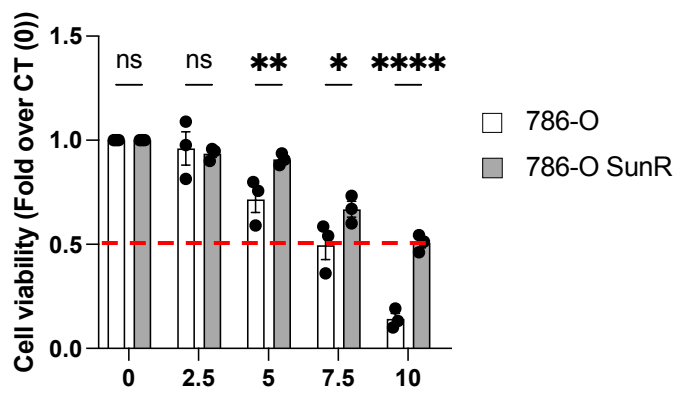


A



B

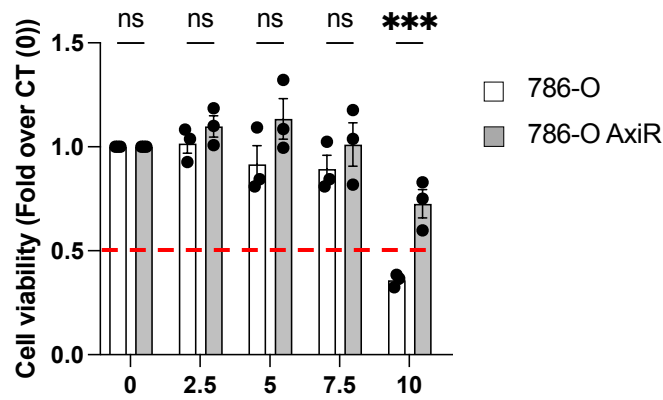
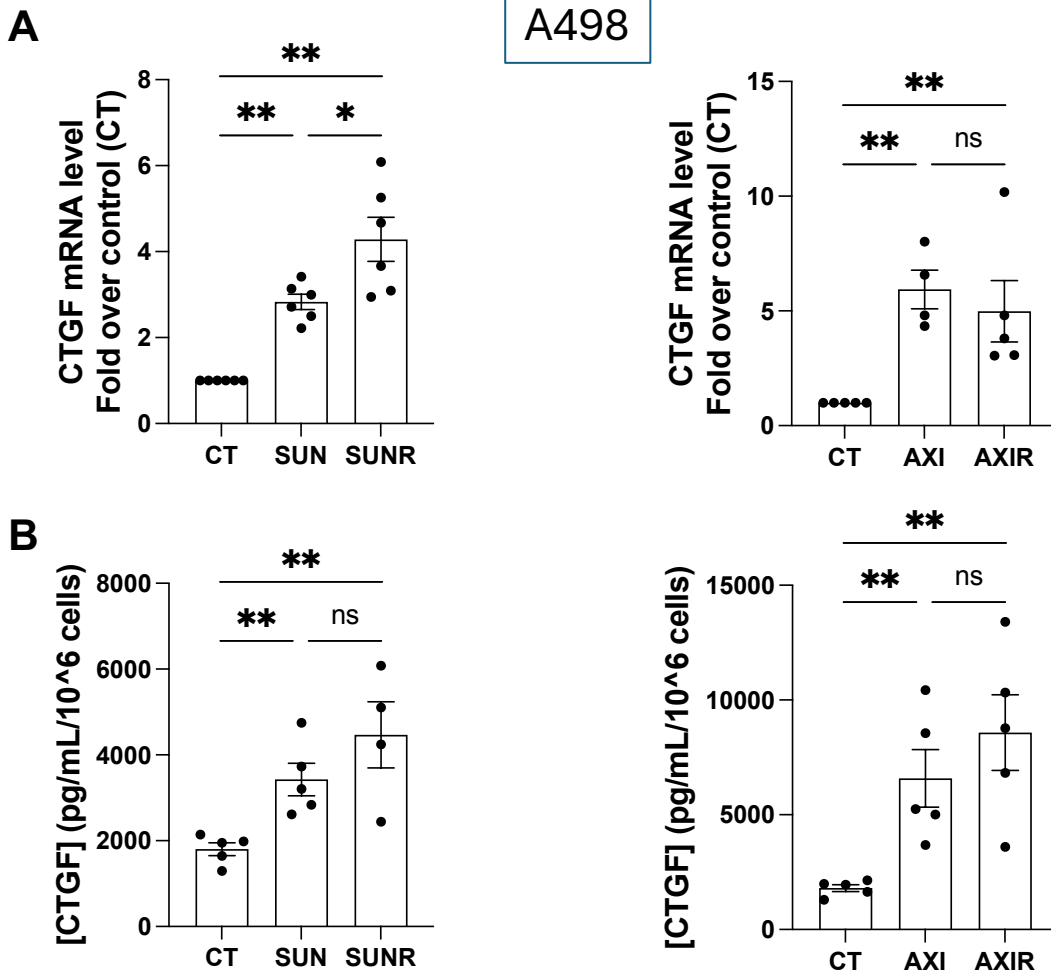


Figure S1: Teisseire, M *et al*

A498



RCC10

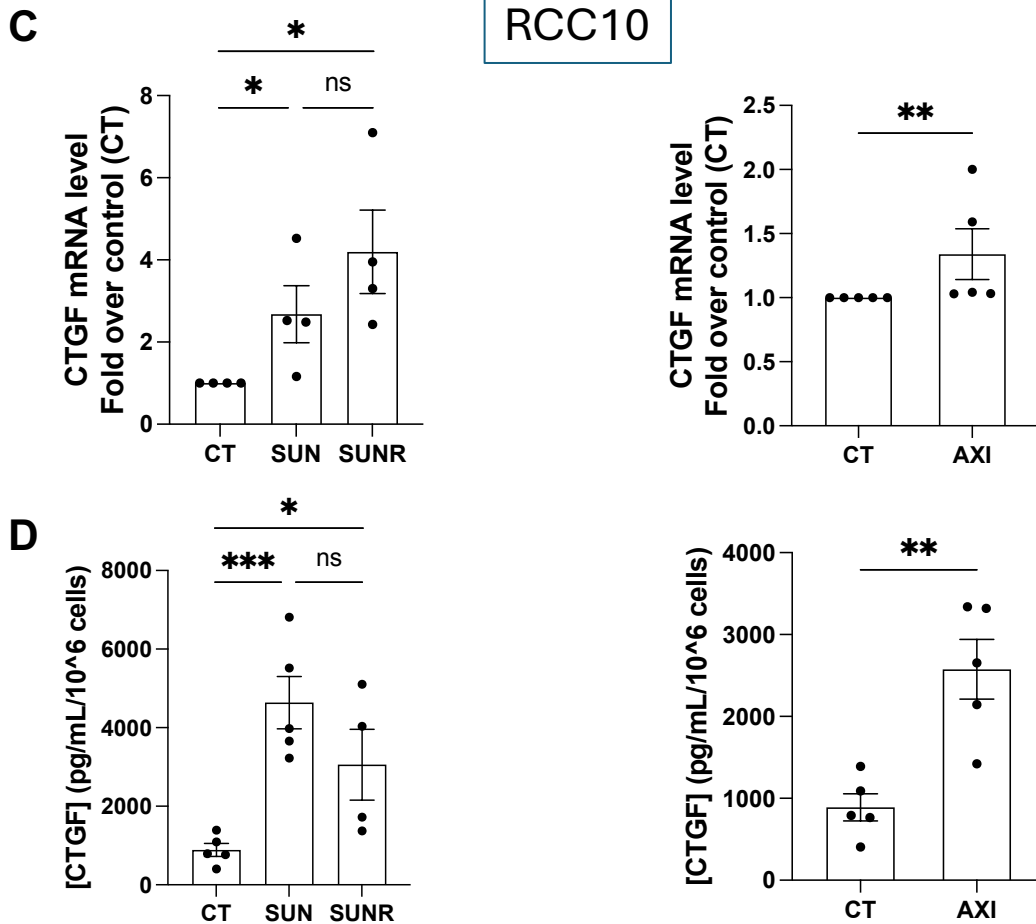
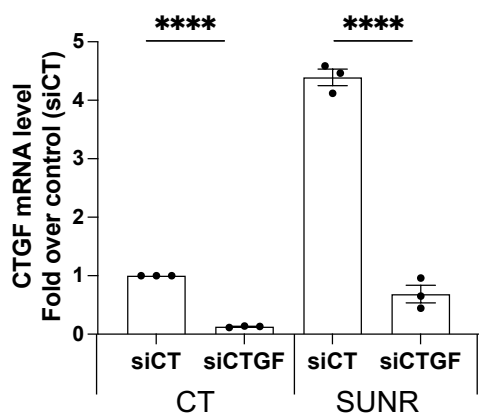
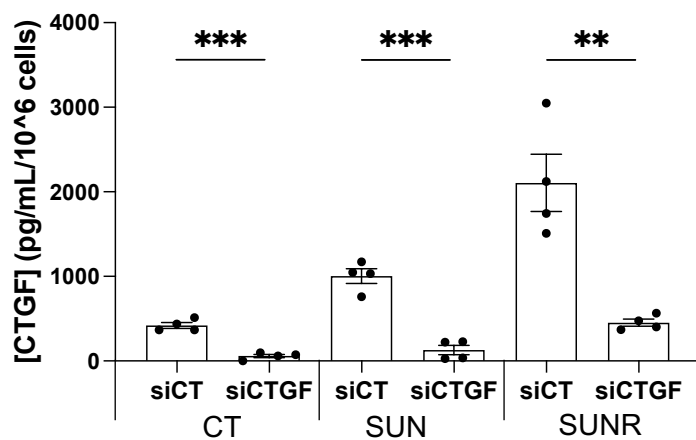


Figure S2: Teisseire, M et al

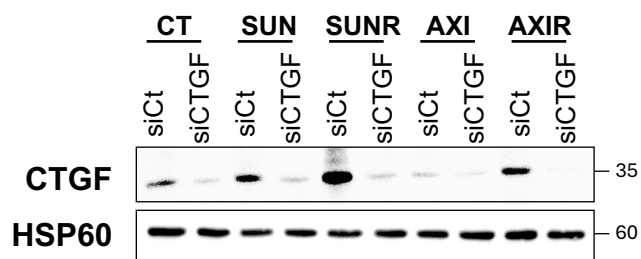
**A**



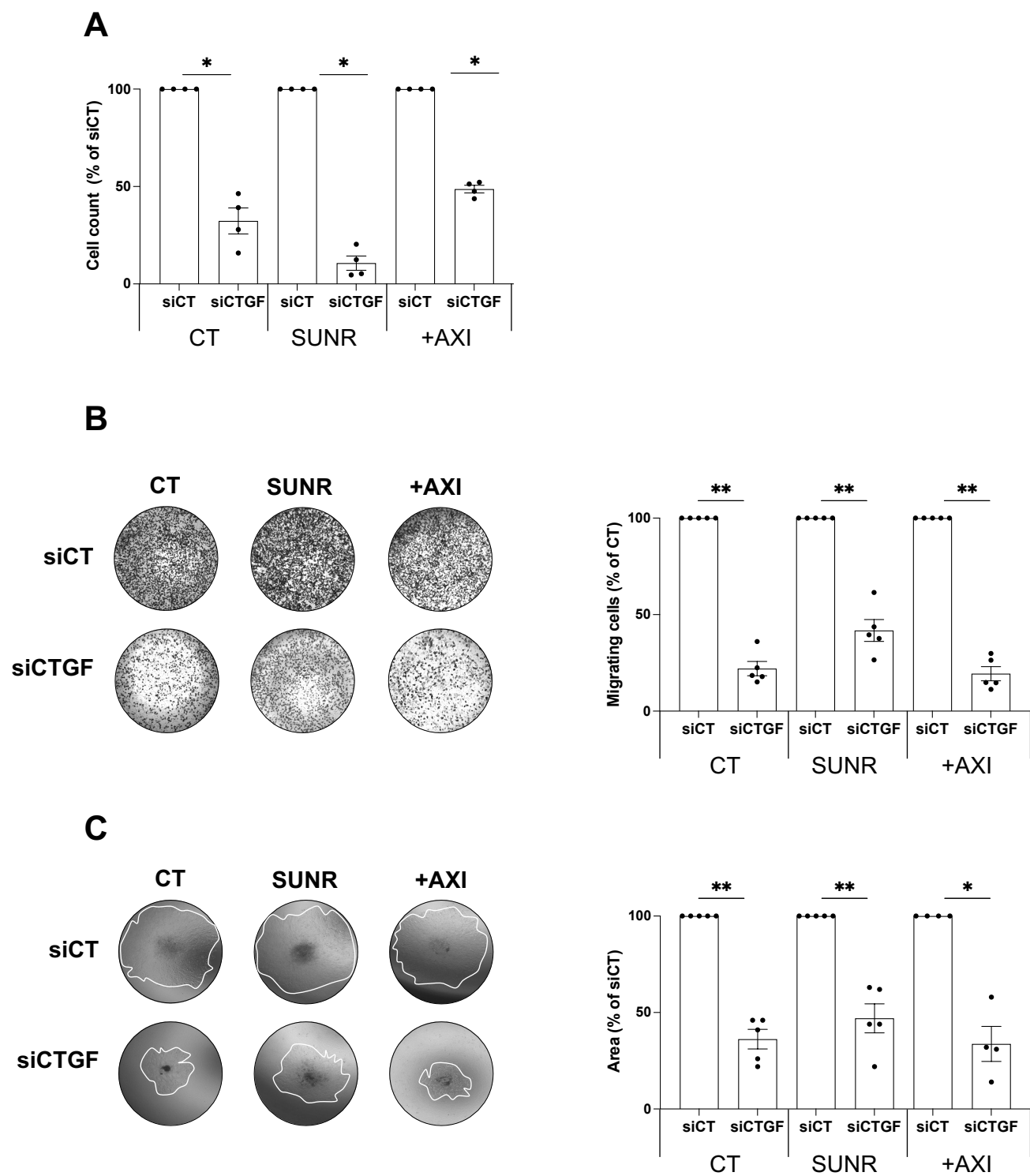
# B



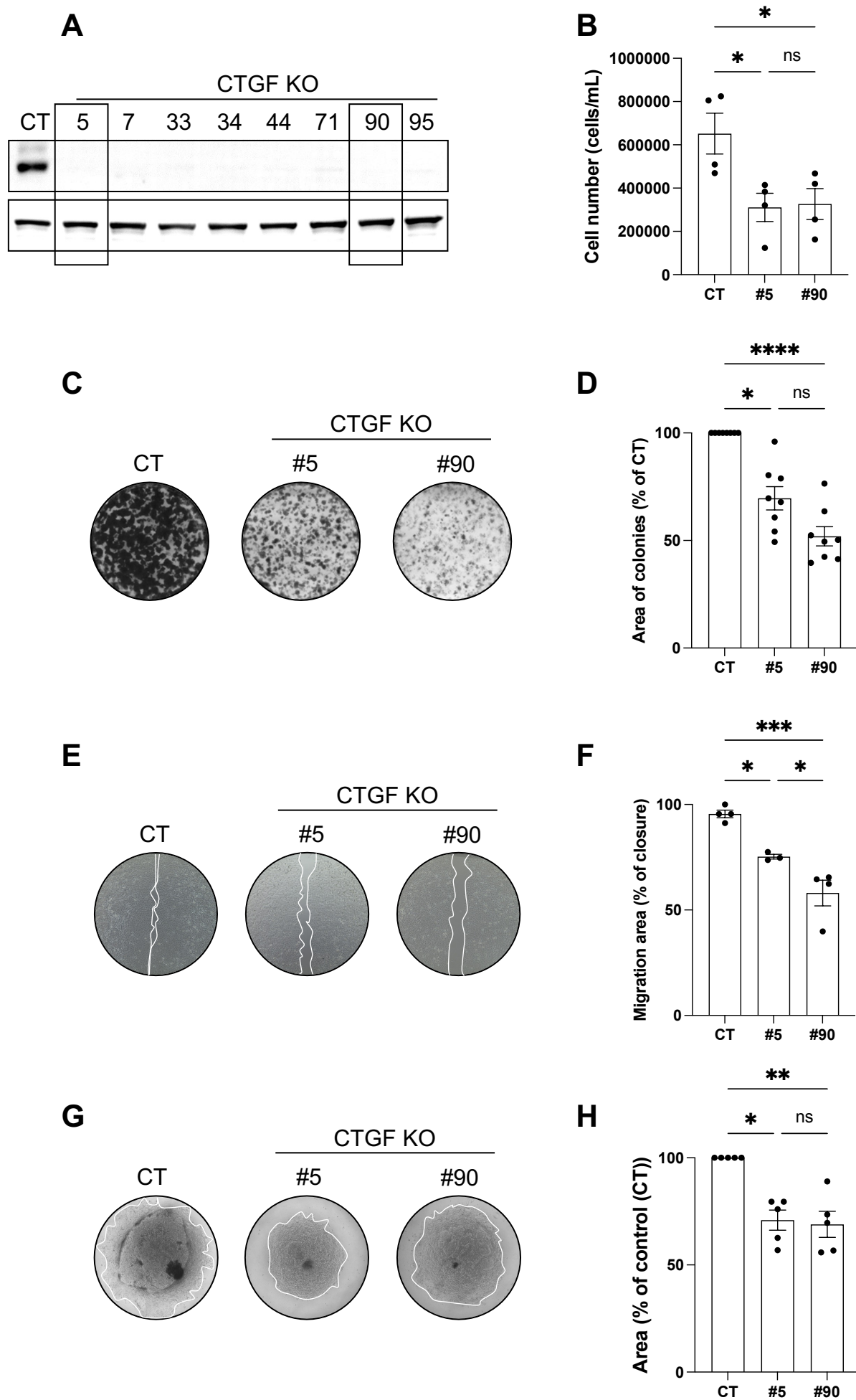
**C**



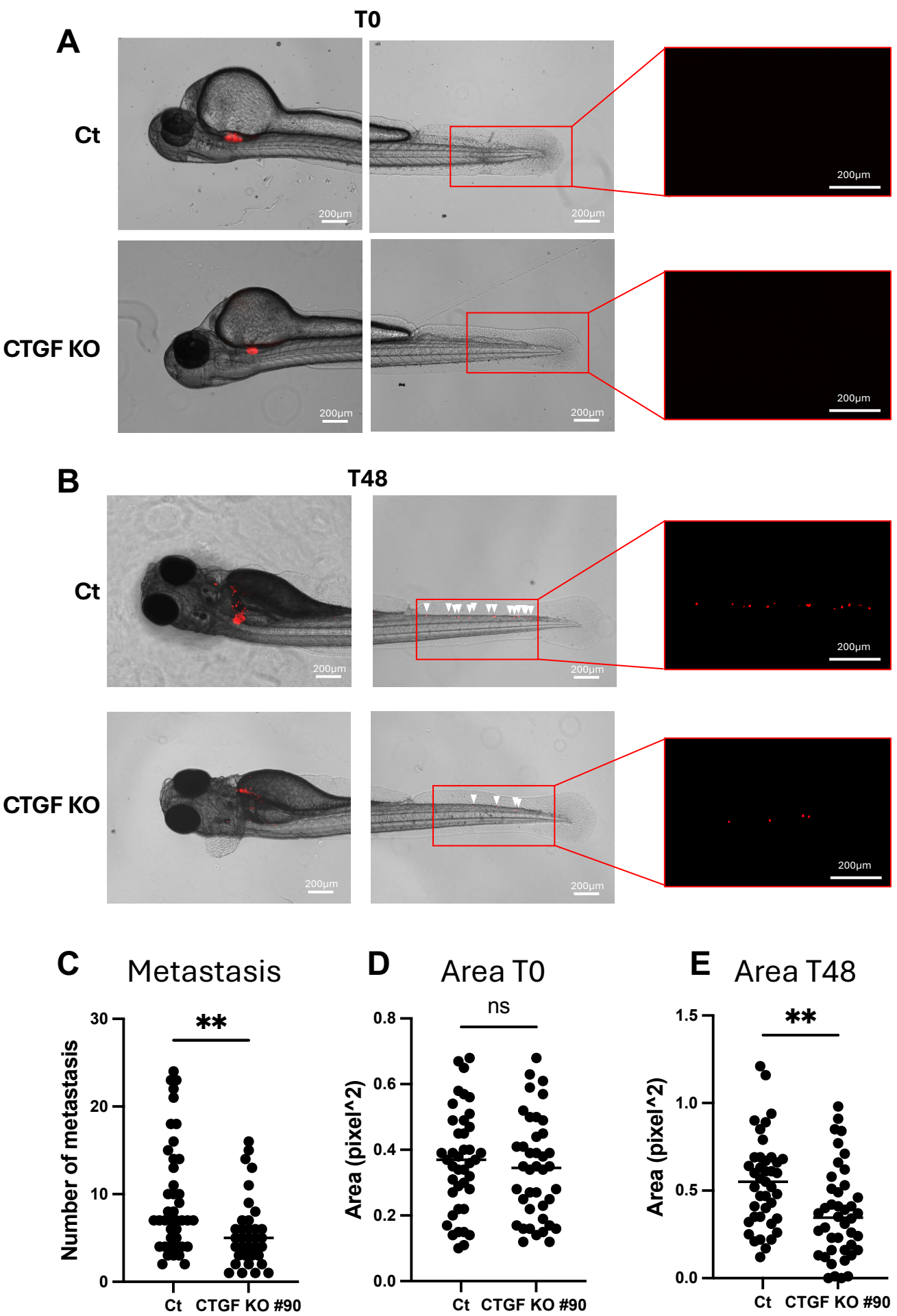
**Figure S3: Teisseire, M *et al***



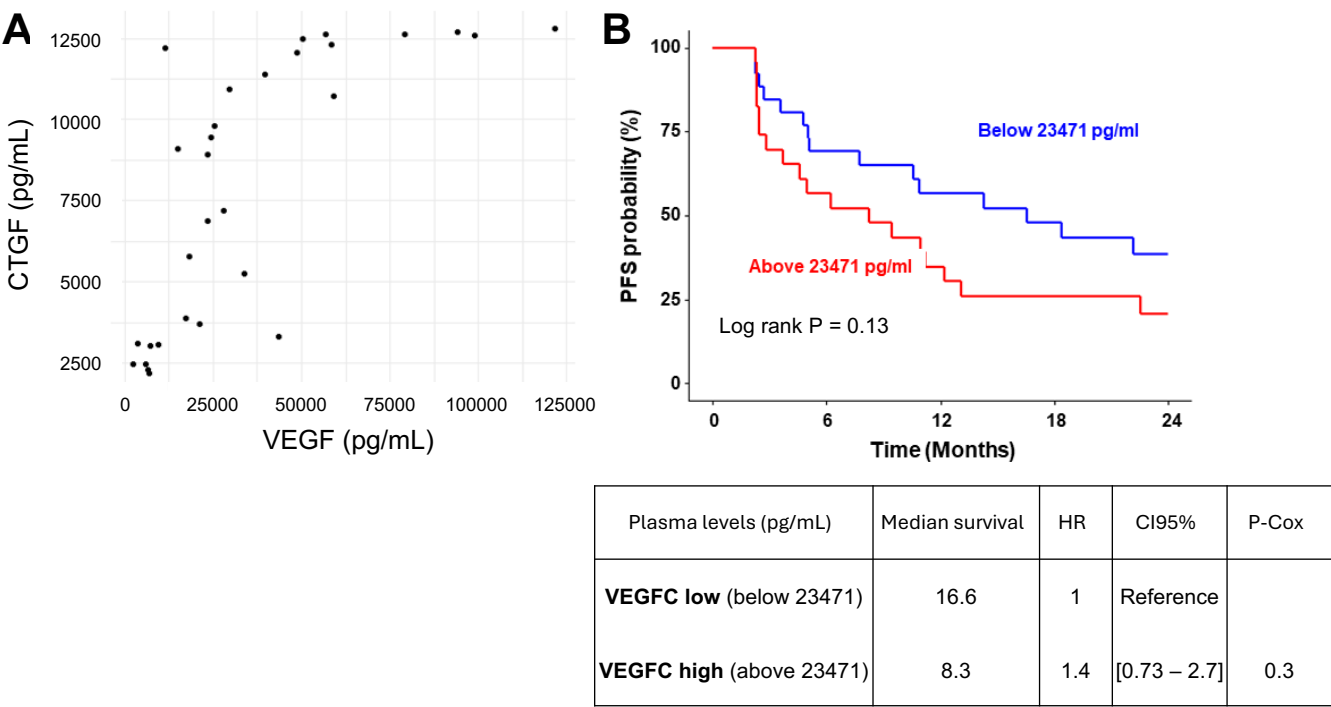
**Figure S4: Teisseire, M *et al***



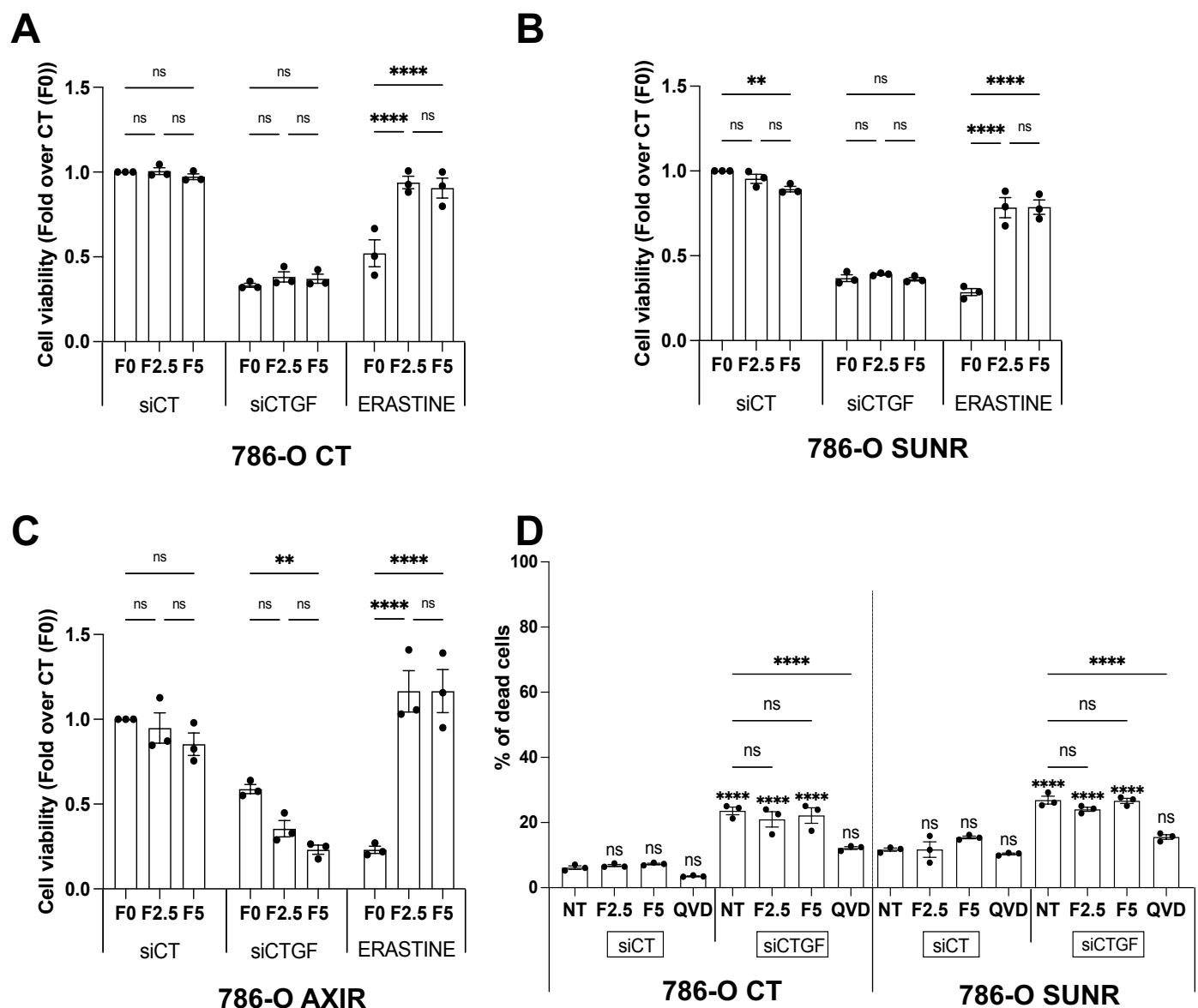
**Figure S5: Teisseire, M et al**



**Figure S6: Teisseire, M et al**



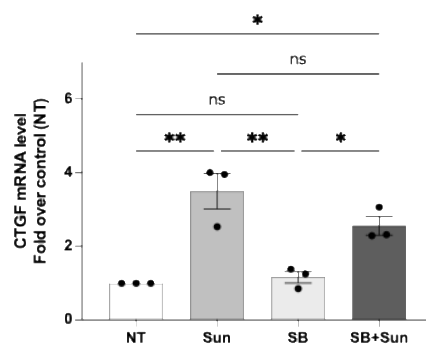
**Figure S7: Teisseire, M *et al***



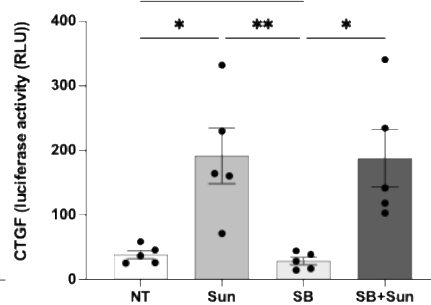
**Figure S8: Teisseire, M *et al***

### p38 MAPK inhibitor (SB203580)

**A**

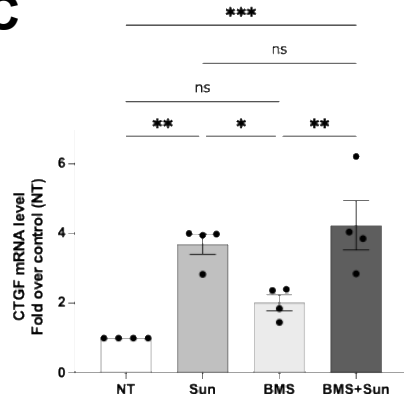


**B**

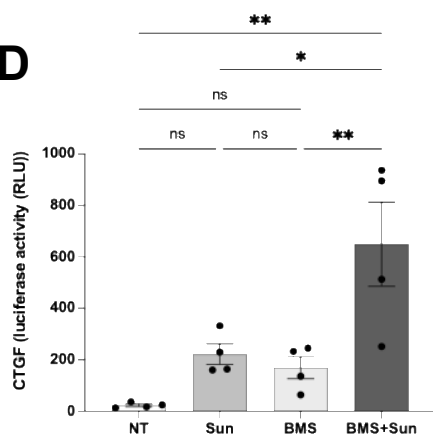


### p65 NFkB inhibitor (BMS345541 / BAY117082)

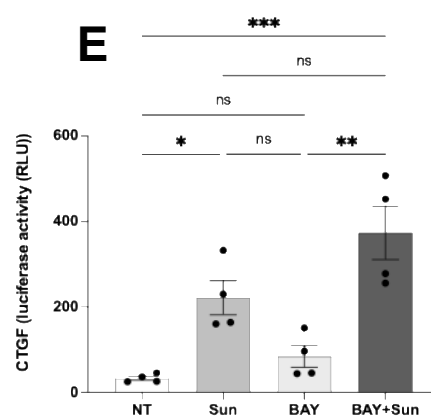
**C**



**D**



**E**



**Figure S9: Teisseire, M *et al***

## Supplementary informations

**Supplementary Figure S1: Dose-response effect of sunitinib and axitinib on parental and resistant 786-O cell viability.** Parental 786-O and sunitinib (SUNR) (A) or axitinib (AXIR) (B) resistant cells were treated for 24h with increasing concentration of sunitinib (0-10 $\mu$ M) (A) or axitinib (0-10 $\mu$ M) (B). Cell viability was quantified using CellTiter-Glo assay.

**Supplementary Figure S2: CTGF levels are elevated in sunitinib and axitinib treated and resistant ccRCC cells (A498 and RCC10).** (A) CTGF mRNA levels measured by RT-qPCR after 48 hours in control (CT), sunitinib-treated (SUN), axitinib-treated (AXI), and sunitinib-resistant (SUNR) or axitinib-resistant (AXIR) A498 ccRCC cells. \*  $P < 0.05$ ; \*\*  $P < 0.01$ ; ns = not significant. (B) Secreted CTGF levels measured by ELISA after 96 hours in control (CT), sunitinib-treated (SUN), axitinib-treated (AXI), and sunitinib-resistant (SUNR) or axitinib-resistant (AXIR) A498 ccRCC cells. \*\*  $P < 0.01$ ; ns = not significant. (C) CTGF mRNA levels measured by RT-qPCR after 48 hours in control (CT), sunitinib-treated (SUN), axitinib-treated (AXI), and sunitinib-resistant (SUNR) RCC10 ccRCC cells. \*  $P < 0.05$ ; \*\*  $P < 0.01$ ; ns = not significant. (D) Secreted CTGF levels measured by ELISA after 96 hours in control (CT), sunitinib-treated (SUN), axitinib-treated (AXI), and sunitinib-resistant (SUNR) RCC10 ccRCC cells. \*  $P < 0.05$ ; \*\*  $P < 0.01$ ; \*\*\*  $P < 0.001$ ; ns = not significant.

**Supplementary Figure S3: Efficacy of siCTGF Treatment.** (A) CTGF mRNA levels measured by RT-qPCR after 48 hours of transfection with either control siRNA (siCT) or CTGF-targeting siRNA (siCTGF) in control (CT) and sunitinib-resistant (SUNR) 786-O cells. \*\*\*\*  $P < 0.0001$  (B) Secreted CTGF levels measured by ELISA after 48 hours of transfection with siCT or siCTGF in control (CT), sunitinib-treated (SUN), and sunitinib-resistant (SUNR) 786-O cells. \*\*  $P < 0.01$ ; \*\*\*  $P < 0.001$ . (C) Protein expression profiles analyzed by

immunoblotting of CT, SUN, SUNR, axitinib-treated (AXI), and axitinib-resistant (AXIR) 786-O cells transfected with either siCT or siCTGF for 48 hours.

**Supplementary Figure S4: CTGF drives tumor cell proliferation, migration and invasion in RCC10.** (A) Effects of CTGF downregulation by siRNA on the total number of cells, as measured by a Coulter counter, in control (CT), sunitinib-resistant (SUNR), and axitinib-treated (AXI) RCC10 cells, 96 hours post-transfection. \*  $P < 0.05$ . (B) Effects of siCT or siCTGF after 48 hours post-transfection on the migration of control (CT), sunitinib-resistant (SUNR), and axitinib-treated (+AXI) RCC10 cells, assessed using Boyden chamber assays. Representative images of Boyden chambers are shown. \*\*  $P < 0.01$ . (C) The invasive properties of control (CT), sunitinib-resistant (SUNR), and axitinib-treated (+AXI) RCC10 cells, treated with either siCT or siCTGF were evaluated using tumor spheroids embedded in Matrigel. Representative images are shown \*  $P < 0.05$ ; \*\*  $P < 0.01$ .

**Supplementary Figure S5: CTGF Invalidation using CRISPR-Cas9 technology.** (A) CTGF expression analyzed by immunoblotting in control (CT) and CTGF knockout (KO) clones #5 and #90. (B) Cell count of control (CT) and CTGF KO (#5 and #90) cells after 96 hours of growth. ns = not significant; \*  $P < 0.05$  (C-D) Clonogenic assay results. (C) Representative images of the clonogenic assay showing colony formation for control (CT) and CTGF KO clones (#5 and #90) and (D) area of colonies measured for control (CT) and CTGF KO clones (#5 and #90) ns = not significant; \*  $P < 0.05$ ; \*\*\*\*  $P < 0.0001$ . (E-F) Effects of CTGF KO on cell migration assessed by scratch assays. (E) Representative images of the scratch assays are shown and (F) migration area representing the percentage of wound closure. ns = not significant; \*\*  $P < 0.01$ . (G-H) Effects of CTGF KO on cell invasion. (G) Representative

images of spheroids embedded in matrigel are shown **(H)**. Invasion area is represented as a percentage of the control (CT). ns = not significant; \*  $P < 0.05$ ; \*\*  $P < 0.01$ .

**Supplementary Figure S6: CTGF invalidation by CRISPR-Cas9 decreases local growth and distant metastasis in a zebrafish model.** **(A)** Representative image showing local and distant metastases. Zebrafish embryos ( $N = 35$ ) were injected with 786-O cells treated with either control cells (Ct) or CTGF KO cells (CTGF KO), labeled with red DiD, into the perivitelline space. Analysis was conducted at 0 hours (T0) and 48 hours post-injection (T48). **(C)** Quantification of distant metastases per zebrafish, based on fluorescent microscopy. **(D-E)** Quantification of tumor growth by measuring tumor area at the initial time point (T0) **(D)** and after 48 hours (T48) **(E)**, along with the corresponding RFP signal area. ns = not significant; \*\*  $P < 0.01$ .

**Supplementary Figure S7: The expression of CTGF and VEGFC is interdependent.** **(A)** Logarithmic correlation curve showing the relationship between CTGF and VEGFC levels. The curve illustrates the degree of correlation between these two markers. **(B)** Kaplan–Meier analysis of progression-free survival (PFS) in patients with clear cell renal carcinoma (KIRC). PFS was calculated based on patient subgroups with plasma levels of VEGFC either below or above an optimal cut-off value. P-values and median survival times are provided.

**Supplementary Figure S8: Ferrostatin-1 effect on cell viability and cell death following 96h siRNA transfection in 786-O cells.** **(A-C)** Cell viability measured using CellTiter-Glo assay 96h after siRNA transfection (siCT or siCTGF) or after treatment with erastin ( $2.5\mu\text{M}$ ), either alone (F0) or in combination with ferrostatin-1 ( $2.5\mu\text{M}$  (F2.5) or  $5\mu\text{M}$  (F5)) a, ferroptosis inhibitor. Luminescence values are normalized to the siCT F0 condition. Panels correspond to

786-O cells (CT) **(A)**, sunitinib resistant 786-O cells (SUNR) **(B)**, and axitinib resistant 786-O cells (AXIR) **(C)**. **(D)** Percentage of dead cells measured 96h after siRNA transfection (siCT or siCTGF) in the presence of ferrostatin-1 (2.5 $\mu$ M (F2.5) or 5 $\mu$ M (F5)) or the pan-caspase inhibitor Q-VD-OPh (QVD, 10 $\mu$ M). Cell death was analyzed by propidium iodide staining using flow cytometry in CT and SUNR 786-O cells. \*\* P < 0.01; \*\*\* P < 0.001; \*\*\*\* P < 0.0001; ns = non-significant.

**Supplementary Figure S9: Sunitinib-induced CTGF upregulation is not reversed by MAPK or NFkB inhibitors. (A-B)** Effect of p38 MAPK inhibitor SB203580. **(A)** CTGF mRNA levels measured by RT-qPCR after 48h of treatment with sunitinib 2.5 $\mu$ M (Sun), SB203580 10 $\mu$ M (SB) alone, or in combination (SB+Sun). **(B)** CTGF luciferase activity (RLU, Relative Luciferase Units) measured after 48h of same treatment. **(C-E)** Effect of NFkB inhibitors BMS345541 and BAY117082. **(C)** CTGF mRNA level measured by RT-qPCR after 48h of treatment with sunitinib 2.5 $\mu$ M (Sun), BMS345541 2.5 $\mu$ M (BMS) alone, or in combination (BMS+Sun). **(D-E)** CTGF luciferase activity after 48h of treatment with sunitinib 2.5 $\mu$ M (Sun), BMS345541 2.5 $\mu$ M (BMS) or BAY117082 2.5 $\mu$ M (BAY) alone, or in combination.

**Supplementary Table S1: Common Proteins Upregulated in SUNR and AXIR Conditioned Media.**

This table lists proteins that are commonly upregulated in the conditioned media of sunitinib-resistant (SUNR) and axitinib-resistant (AXIR) ccRCC cells.

**Supplementary Table S2: Common Genes Upregulated in 786-O SUNR and AXIR Cells.**

This table identifies genes that are commonly upregulated in 786-O ccRCC cells resistant to sunitinib (SUNR) and axitinib (AXIR).

**Supplementary Table S3: Common Genes Upregulated in A498 SUNR and AXIR Cells.**

This table details genes that are commonly upregulated in A498 ccRCC cells resistant to sunitinib (SUNR) and axitinib (AXIR).

**Supplementary Table S4: Common Genes Upregulated in 786-O SUNR and AXIR, and A498 SUNR and AXIR Cells.**

This table presents genes that are commonly upregulated in both 786-O and A498 ccRCC cells resistant to sunitinib (SUNR) and axitinib (AXIR).

Supplementary Table 1: Common proteins upregulated in SUNR and AXIR conditioned media

|    |                     |
|----|---------------------|
| 1  | LCN2                |
| 2  | CTHRC1              |
| 3  | MMP1                |
| 4  | PSG1;PSG3;PSG9      |
| 5  | NID2                |
| 6  | PSG1;PSG3;PSG5;PSG9 |
| 7  | IL6                 |
| 8  | C3                  |
| 9  | L1CAM               |
| 10 | CFB                 |
| 11 | ERVMER34-1          |
| 12 | COL12A1             |
| 13 | CXCL5               |
| 14 | CXCL8               |
| 15 | ANGEL2              |
| 16 | FBN1                |
| 17 | PSG9                |
| 18 | PSG1;PSG3           |
| 19 | PSG1                |
| 20 | TENM3;TENM4         |
| 21 | PLAT                |
| 22 | SOD2                |
| 23 | MATN2               |
| 24 | CDH4                |
| 25 | RNASEH2A            |
| 26 | CTSS                |
| 27 | SIRPB1              |
| 28 | HS6ST1;HS6ST2       |
| 29 | RELN                |
| 30 | PLOD2               |
| 31 | CXCL1               |
| 32 | ASS1                |
| 33 | MCAM                |
| 34 | INHBA               |
| 35 | EFNA1               |
| 36 | CCN2                |
| 37 | ACP5                |
| 38 | ANPEP               |
| 39 | LRRN4               |
| 40 | OR5AC2              |
| 41 | CD44                |
| 42 | C1QTNF1             |
| 43 | DNASE2              |
| 44 | FSTL1               |
| 45 | TENM3               |
| 46 | ICOSLG              |
| 47 | PSG3;PSG5;PSG9      |
| 48 | ATRN                |
| 49 | PCSK9               |
| 50 | CXCL1;CXCL2         |
| 51 | TNC                 |
| 52 | RGMB                |

|     |           |
|-----|-----------|
| 53  | SORT1     |
| 54  | PROS1     |
| 55  | PTX3      |
| 56  | OAF       |
| 57  | PSG1;PSG5 |
| 58  | CAT       |
| 59  | FAT1      |
| 60  | PLSCR3    |
| 61  | AGA       |
| 62  | COL6A2    |
| 63  | GCNT3     |
| 64  | IGFBP7    |
| 65  | SERPINB9  |
| 66  | B3GNT7    |
| 67  | ANKRD30A  |
| 68  | SERPINI1  |
| 69  | GFRA1     |
| 70  | ICAM2     |
| 71  | ANTXR1    |
| 72  | DKK3      |
| 73  | TAGLN     |
| 74  | CHRD1     |
| 75  | NRXN3     |
| 76  | ACP6      |
| 77  | CADM1     |
| 78  | NEGR1     |
| 79  | PTPRM     |
| 80  | CPA4      |
| 81  | NXPE3     |
| 82  | GJC1      |
| 83  | ICAM1     |
| 84  | HS6ST2    |
| 85  | BPHL      |
| 86  | TNFRSF9   |
| 87  | TP53I3    |
| 88  | LCP1      |
| 89  | GSTM3     |
| 90  | TLL2      |
| 91  | MDGA2     |
| 92  | C1QTNF6   |
| 93  | FJX1      |
| 94  | GLA       |
| 95  | PTPRS     |
| 96  | HMOX1     |
| 97  | ARSB      |
| 98  | FTH1      |
| 99  | BCAM      |
| 100 | CD81      |
| 101 | LSR       |
| 102 | EFEMP2    |
| 103 | FZD2;FZD7 |
| 104 | EFNB1     |

|     |           |
|-----|-----------|
| 105 | CLMP      |
| 106 | EXOC3L4   |
| 107 | CCDC80    |
| 108 | GALNT18   |
| 109 | LOX       |
| 110 | LAMB2     |
| 111 | HEXB      |
| 112 | DCBLD1    |
| 113 | CLU       |
| 114 | LY96      |
| 115 | CTSH      |
| 116 | IDUA      |
| 117 | PTPRB     |
| 118 | CNRIP1    |
| 119 | ADAM9     |
| 120 | EXT1      |
| 121 | IGSF3     |
| 122 | TMBIM1    |
| 123 | GBA       |
| 124 | LUM       |
| 125 | PPIF      |
| 126 | NECTIN2   |
| 127 | IGF2R     |
| 128 | EXT2      |
| 129 | TMEM132A  |
| 130 | IFI30     |
| 131 | GLUD1     |
| 132 | TNFRSF11B |
| 133 | ACP2      |
| 134 | PPIE;PPIF |
| 135 | SPRYD4    |
| 136 | TOR1B     |
| 137 | CUX2      |
| 138 | IGSF8     |
| 139 | CRAT      |
| 140 | KYNU      |
| 141 | PTTG1IP   |
| 142 | SDCBP     |
| 143 | ECH1      |
| 144 | ADAMTSL3  |
| 145 | KIAA1755  |
| 146 | ASAH1     |
| 147 | VEGFC     |
| 148 | ACO2      |
| 149 | FSTL3     |
| 150 | DSC2      |
| 151 | PCK2      |
| 152 | GOT2      |
| 153 | IL6ST     |
| 154 | ITGB3     |
| 155 | FXN       |
| 156 | BCAT2     |

|     |                   |
|-----|-------------------|
| 157 | SEMA4C            |
| 158 | DPP7              |
| 159 | GCSH              |
| 160 | QSOX1             |
| 161 | PSG5              |
| 162 | TIMP1             |
| 163 | B2M               |
| 164 | C1QBP             |
| 165 | BNC2              |
| 166 | MAN2B1            |
| 167 | PLSCR1            |
| 168 | CDCP1             |
| 169 | PEPD              |
| 170 | DPP4              |
| 171 | C1R;C1RL          |
| 172 | NECTIN1           |
| 173 | ST3GAL1           |
| 174 | CEMIP2            |
| 175 | HIBADH            |
| 176 | C1GALT1C1         |
| 177 | HIBCH             |
| 178 | PTS               |
| 179 | CACHD1            |
| 180 | SRPX              |
| 181 | FCAMR             |
| 182 | CADM4             |
| 183 | TLL1;TLL2         |
| 184 | SERPINB8;SERPINB9 |
| 185 | TGFB2             |
| 186 | TXNRD2            |
| 187 | EPHB2             |
| 188 | C11orf54          |
| 189 | ROBO1             |
| 190 | TSPAN4            |
| 191 | CCN3              |
| 192 | CHID1             |
| 193 | OGFOD3            |
| 194 | FDX1              |
| 195 | TSPAN14           |
| 196 | ECI1              |
| 197 | CNPY3             |
| 198 | AGT               |
| 199 | IL4I1             |
| 200 | SERPINA5          |
| 201 | ST3GAL1;ST3GAL2   |
| 202 | CYCS              |
| 203 | ATF6              |
| 204 | DLST              |
| 205 | SORCS2            |
| 206 | CST3              |
| 207 | ACOT1             |
| 208 | CTSO              |

|     |             |
|-----|-------------|
| 209 | SLIT2       |
| 210 | DLD         |
| 211 | ADGRE5      |
| 212 | IST1        |
| 213 | MMP2;MMP7   |
| 214 | MMP2        |
| 215 | ADAM12      |
| 216 | CCL2        |
| 217 | POLDIP2     |
| 218 | MRC2        |
| 219 | ACAT1       |
| 220 | MEGF8       |
| 221 | GRPEL1      |
| 222 | LHPP        |
| 223 | HLA-A;HLA-B |
| 224 | ABHD10      |
| 225 | PAPPA       |
| 226 | PLD3        |
| 227 | ACAA2       |
| 228 | SUMF2       |
| 229 | SERPINB7    |
| 230 | SERPINB8    |
| 231 | SDK1        |
| 232 | MSRA        |
| 233 | POGLUT3     |
| 234 | LONP1       |
| 235 | EFNA4       |
| 236 | ZNF428      |
| 237 | GALNT12     |
| 238 | ANXA5       |
| 239 | LAMB3       |
| 240 | CHMP1B      |
| 241 | ATP1B3      |
| 242 | B4GALT3     |
| 243 | RMDN3       |
| 244 | SLC31A1     |
| 245 | MMP9        |
| 246 | FKBP2       |
| 247 | CDH13       |
| 248 | SERPING1    |
| 249 | MVB12A      |
| 250 | ANXA11      |
| 251 | STX7        |
| 252 | NFU1        |
| 253 | LRPPRC      |
| 254 | CLDN1       |
| 255 | MGAT5       |
| 256 | MIX23       |
| 257 | ADAM10      |
| 258 | ANXA6       |
| 259 | CPNE2       |
| 260 | ATP5F1B     |

|     |           |
|-----|-----------|
| 261 | NIPSNAP3A |
| 262 | TXN2      |
| 263 | HSPD1     |
| 264 | SH3BGRL   |
| 265 | DIABLO    |
| 266 | ADGRG1    |
| 267 | EML2      |
| 268 | HSPA9     |
| 269 | PRDX3     |
| 270 | PLOD1     |
| 271 | TOLLIP    |

Supplementary Table 2: Common genes upregulated in 786-O SUNR and AXIR

1 'ENG'  
2 'SULF2'  
3 'KCNIP1'  
4 'LIMCH1'  
5 'H1F0'  
6 'PRKCZ'  
7 'AJAP1'  
8 'CHRD1'  
9 'SPX'  
10 'TCF7L1'  
11 'PRXL2A'  
12 'CDH4'  
13 'NPPB'  
14 'SULT1A4'  
15 'EPN2'  
16 'LBH'  
17 'RELN'  
18 'CLDN16'  
19 'TNFSF12'  
20 'COL4A4'  
21 'AUTS2'  
22 'SCN8A'  
23 'RRAGD'  
24 'APBB1'  
25 'TP53I11'  
26 'SUN3'  
27 'INPP4B'  
28 'OAS2'  
29 'IGFBP2'  
30 'ALDH1L2'  
31 'RAB19'  
32 'TMEM40'  
33 'ERICH5'  
34 'C4BPB'  
35 'KRT17'  
36 'TMEM98'  
37 'PTPRS'  
38 'AQP1'  
39 'JPH2'  
40 'SARDH'  
41 'PHLDB3'  
42 'SYT17'  
43 'APBA1'  
44 'PSG2'  
45 'FBLN1'  
46 'SMTNL2'  
47 'RAB3IL1'  
48 'TUBB4A'  
49 'WNT5B'  
50 'CRISPLD1'  
51 'PDPN'  
52 'EPHB1'  
53 'LOC100653C'  
54 'HDX'

55 'PQLC2L'  
56 'CELF2'  
57 'MX2'  
58 'TAGLN'  
59 'GPRC5C'  
60 'ZNF114'  
61 'SAMD5'  
62 'ERVMER34-  
63 'C6orf132'  
64 'ULK2'  
65 'TLR2'  
66 'ACSS1'  
67 'ADAM28'  
68 'ATP8B2'  
69 'LRFN3'  
70 'RENBP'  
71 'SLAIN1'  
72 'ANPEP'  
73 'TMEM130'  
74 'KIF6'  
75 'TSPAN18'  
76 'ZNF716'  
77 'B4GALNT2'  
78 'PCSK9'  
79 'MLPH'  
80 'MX1'  
81 'SLC37A1'  
82 'ANKRD6'  
83 'FAM89A'  
84 'PSG9'  
85 'KCTD16'  
86 'FAM19A2'  
87 'ELFN1'  
88 'GATA3'  
89 'CXCL16'  
90 'ARL10'  
91 'GALNT12'  
92 'SERPINF1'  
93 'TLR4'  
94 'CHST13'  
95 'FAM43A'  
96 'ETNK2'  
97 'COL12A1'  
98 'FCGRT'  
99 'SCIN'  
100 'PCDH20'  
101 'SORL1'  
102 'KCNK6'  
103 'KLHL30'  
104 'STK33'  
105 'LPL'  
106 'TMEM255B'  
107 'NPR3'  
108 'C11orf52'  
109 'PSG5'  
110 'KLF8'

111 'PTCHD1'  
112 'HIST1H3E'  
113 'PSG8'  
114 'SORCS2'  
115 'WTIP'  
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1766 'ZNF14'  
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1791 'MICA'  
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1826 'TRIM34'  
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1828 'ZNF28'  
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1923 'APLP2'  
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1927 'CLIP4'  
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1937 'PLD3'  
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1953 'CSF2RB'  
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1971 'ONECUT1'  
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1973 'SNAI3'  
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1975 'LRRC66'  
1976 'AQP7'  
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1980 'KCNN3'  
1981 'KCNQ3'  
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1985 'MLXIPL'  
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1987 'FXD6'  
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1989 'NECAB2'  
1990 'PPL'  
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1995 'CPXM1'  
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1997 'WDFY4'  
1998 'SEMA4G'  
1999 'CACNG7'  
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2004 'ZNF221'  
2005 'TMC5'  
2006 'PLEKHS1'  
2007 'GREB1L'  
2008 'PGAP1'  
2009 'CAMK2B'  
2010 'AMN'  
2011 'MADCAM1'  
2012 'SCRT1'  
2013 'SLC25A18'  
2014 'AOC3'

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2018 'CACNA1G'  
2019 'CD1D'  
2020 'ZNF804A'  
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2025 'ICAM1'  
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2030 'EXTL3'  
2031 'DDX60L'  
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2038 'ABI2'  
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2091 'LDHC'  
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2093 'ADARB1'  
2094 'PTPRA'  
2095 'MAIP1'  
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2103 'DENND5B'  
2104 'LIMS4'  
2105 'ADGRG1'  
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2115 'HSPBAP1'  
2116 'PMP22'  
2117 'KDM4D'  
2118 'OGDH'  
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2141 'GABBR1'  
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2169 'EMB'  
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2182 'TMEM170B'

2183 'LGALS8'  
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2187 'FIGN'  
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2189 'BCL9L'  
2190 'PPT2'  
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2192 'IGF2R'  
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2196 'TRIM3'  
2197 'RAP1GDS1'  
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2215 'DCTD'  
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2217 'XRN2'  
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2219 'CNP'  
2220 'KCNJ8'  
2221 'GLS'  
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2224 'DND1'  
2225 'INSIG2'  
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2232 'HIST2H4B'  
2233 'HIST2H4A'  
2234 'THY1'  
2235 'GPR153'  
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2237 'ZNRF1'  
2238 'MEX3B'

2239 'ZFYVE1'  
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2248 'CCDC17'  
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2260 'TUBG2'  
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2268 'NDUFS4'  
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2270 'SLC18B1'  
2271 'ZNF155'  
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2273 'VPS13C'  
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2275 'ALKBH8'  
2276 'MTLN'  
2277 'NBEAL1'  
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2296 'SLC44A3'  
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2306 'NEIL3'  
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2317 'HCFC2'  
2318 'SDHAF2'  
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2323 'BLCAP'  
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2325 'CCDC97'  
2326 'KLHL28'  
2327 'RNF166'  
2328 'SYVN1'  
2329 'NAPB'  
2330 'RPE'  
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2332 'HOMER3'  
2333 'ING5'  
2334 'LZTS3'  
2335 'DTNA'  
2336 'RHOBTB3'  
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2344 'S1PR2'  
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2351 'STK36'  
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2357 'RDH10'  
2358 'CAT'  
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2360 'C6orf203'  
2361 'MGAT5B'  
2362 'SETD9'  
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2368 'F5'  
2369 'ZDHHC23'  
2370 'GPLD1'  
2371 'IL2RB'  
2372 'FBLIM1'  
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2374 'BGN'  
2375 'SCG5'  
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2377 'LRFN4'  
2378 'ESAM'  
2379 'TNFSF15'  
2380 'MAPRE2'  
2381 'NUFIP2'  
2382 'BRMS1L'  
2383 'SPPL2A'  
2384 'ZC3H15'  
2385 'ZNF512B'  
2386 'OTUD1'  
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2391 'CLPX'  
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2394 'MTRF1L'  
2395 'GPR137'  
2396 'SCAPER'  
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2398 'CLCN4'  
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2405 'CFL2'  
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2407 'ANKRD12'  
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2409 'HDAC8'  
2410 'PAM'  
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2412 'ZNF625'  
2413 'GLRX'  
2414 'ANKRD23'  
2415 'PRSS23'  
2416 'ZNF613'  
2417 'PARVA'  
2418 'HOXA11'  
2419 'HCCS'  
2420 'AMPD3'  
2421 'NPTXR'  
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2424 'ROBO1'  
2425 'HEXB'  
2426 'VAV2'  
2427 'SCFD1'  
2428 'ACTBL2'  
2429 'ZFP91'  
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2432 'SNURF'  
2433 'ATG16L1'  
2434 'MXD4'  
2435 'MAP1B'  
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2438 'CHAC2'  
2439 'ANXA2'  
2440 'ZNF484'  
2441 'EVI5L'  
2442 'SLC38A7'  
2443 'C2orf74'  
2444 'HEXA'  
2445 'MTMR9'  
2446 'NEDD8-MDF  
2447 'MEGF11'  
2448 'SCARF1'  
2449 'RBPJ'  
2450 'TRAPPC11'  
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2459 'CTSH'  
2460 'PDSS2'  
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2481 'FUT11'  
2482 'ADHFE1'  
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2484 'ZNF284'  
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2486 'TTLL7'  
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2488 'REEP6'  
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2492 'NIPAL3'  
2493 'CYSRT1'  
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2497 'LIME1'  
2498 'ZNF292'  
2499 'RNF187'  
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2502 'PTPRB'  
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2507 'KDM3A'  
2508 'CPEB2'  
2509 'PM20D2'  
2510 'SEC31B'  
2511 'SNX25'  
2512 'SRPRB'  
2513 'SAAL1'  
2514 'COL4A3BP'  
2515 'MID1'  
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2518 'OPRL1'

2519 'COL8A1'  
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2521 'KBTBD3'  
2522 'CLPTM1'  
2523 'CYP46A1'  
2524 'THBS4'  
2525 'CASC10'  
2526 'NAA20'  
2527 'ZBTB43'  
2528 'USP9X'  
2529 'FAM156A'  
2530 'AGO3'  
2531 'RAD17'  
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2533 'FBXW10'  
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2535 'PPFIA4'  
2536 'LAP3'  
2537 'RASA2'  
2538 'TSPAN10'  
2539 'DMGDH'  
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2542 'MSS51'  
2543 'LRRC15'  
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3155 'HIST2H2AA3'  
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3329 'MCRIP1'  
3330 'NEK9'  
3331 'RALGDS'  
3332 'PDZK1IP1'  
3333 'PIGW'  
3334 'KAT6A'  
3335 'BCAR1'  
3336 'PDCD5'  
3337 'ABL2'  
3338 'PTGER2'  
3339 'UBIAD1'  
3340 'PINLYP'  
3341 'GFOD1'  
3342 'CUL9'  
3343 'KCTD17'  
3344 'SIKE1'  
3345 'ZNF737'  
3346 'ANKRD29'  
3347 'FGF7'  
3348 'ANO8'  
3349 'RTBDN'  
3350 'HOXA9'  
3351 'KMT2B'  
3352 'ATG2B'  
3353 'XYLT2'  
3354 'SHC1'  
3355 'GOPC'  
3356 'SOX4'  
3357 'ZNF644'  
3358 'CASTOR1'

3359 'TMEM198'  
3360 'KLHL4'  
3361 'SH2B2'  
3362 'CEP170'  
3363 'RSPRY1'  
3364 'SYNPO2'  
3365 'SYNGAP1'  
3366 'TBC1D22B'  
3367 'KIF13B'  
3368 'VIPAS39'  
3369 'TOB2'  
3370 'SIPA1L2'  
3371 'KIF26B'  
3372 'DAXX'  
3373 'MOSPD1'  
3374 'ALAD'  
3375 'PDHB'  
3376 'VDAC3'  
3377 'INPP5B'  
3378 'PPM1J'  
3379 'SOCS5'  
3380 'DNASE1L1'  
3381 'MYO5A'  
3382 'NAIP'  
3383 'PEX26'  
3384 'RTL8C'  
3385 'LIFR'  
3386 'TMEM79'  
3387 'CBX2'  
3388 'CCDC9B'  
3389 'CCNO'  
3390 'PARP15'  
3391 'SDC4'  
3392 'ADCK1'  
3393 'IGSF8'  
3394 'ZDHHC11B'  
3395 'HK2'  
3396 'SH3BP5'  
3397 'SRP54'  
3398 'GPD1L'  
3399 'LACC1'  
3400 'SH3RF2'  
3401 'ENTPD7'  
3402 'SPARC'  
3403 'ADAMTS16'  
3404 'MAPK1IP1L'  
3405 'ACSS2'  
3406 'MTX3'  
3407 'ZSCAN30'  
3408 'TM9SF1'  
3409 'MAP3K10'  
3410 'GMFB'  
3411 'ADAT2'  
3412 'MIER1'  
3413 'GPR137C'  
3414 'USP35'

3415 'PRR14L'  
3416 'OAF'  
3417 'ZNF420'  
3418 'MAN2A2'  
3419 'RHOBTB2'  
3420 'ACAA2'  
3421 'AHCYL2'  
3422 'EXTL2'  
3423 'NPHP3'  
3424 'KCND1'  
3425 'C1R'  
3426 'GGT7'  
3427 'LOC1027242'  
3428 'CKB'  
3429 'TIMP1'  
3430 'ZNF23'  
3431 'PNKP'  
3432 'RNFT1'  
3433 'RAB4B'  
3434 'PBDC1'  
3435 'NMNAT1'  
3436 'FSTL3'  
3437 'SGK1'  
3438 'MACF1'  
3439 'PPP2R5C'  
3440 'LMBRD2'  
3441 'ZC3H10'  
3442 'C10orf88'  
3443 'TINF2'  
3444 'DEPDC7'  
3445 'RGS19'  
3446 'EMC9'  
3447 'WSB1'  
3448 'CFAP47'  
3449 'FAM222A'  
3450 'TEP1'  
3451 'GLIS1'  
3452 'CCNL2'  
3453 'SLC12A6'  
3454 'MARK4'  
3455 'HEXIM1'  
3456 'GKAP1'  
3457 'BCDIN3D'  
3458 '100996414'  
3459 'ZNF618'  
3460 'PPP3CB'  
3461 'OXCT2'  
3462 'ARHGAP5'  
3463 'SMAD2'  
3464 'RPL36AL'  
3465 'BASP1'  
3466 'RAB43'  
3467 'SKAP2'  
3468 'CBLB'  
3469 'ABHD14A'  
3470 'C9orf16'

3471 'TRMT1'  
3472 'CCDC50'  
3473 'TBC1D3L'  
3474 'DET1'  
3475 'ZFP30'  
3476 'OR2A1'  
3477 'ZNF589'  
3478 'ZNF587'  
3479 'MED13L'  
3480 'CHIC2'  
3481 'PPP1R3E'  
3482 'PLAU'  
3483 'SGSM2'  
3484 'SEMA3C'  
3485 'PROSER3'  
3486 'POLI'  
3487 'FAM171A2'  
3488 'LPIN3'  
3489 'PTRH2'  
3490 'RIPOR1'  
3491 'ZNF41'  
3492 'ZNF81'  
3493 'AAK1'  
3494 'MLH3'  
3495 'HOXB2'  
3496 'SLC39A9'  
3497 'HOXB5'  
3498 'PI4KB'  
3499 'C19orf54'  
3500 'MXD1'  
3501 'CPE'  
3502 'PHF12'  
3503 'TRAPPC2'  
3504 'SLC41A1'  
3505 'FNTA'  
3506 'SOGA3'  
3507 'GTF2H2'  
3508 'FAM114A1'  
3509 'R3HDM2'  
3510 'TMED10'

Supplementary Table 3: Common genes upregulated in A498 SUNR and AXIR

1 'MUC5B'  
2 'TNS4'  
3 'RPS4Y1'  
4 'PCSK9'  
5 'ANXA8'  
6 'KRT81'  
7 'SNRPN'  
8 'SNURF'  
9 'HID1'  
10 'SUSD2'  
11 'C16orf45'  
12 'RIN3'  
13 'TIMP4'  
14 'NTRK3'  
15 'QPCT'  
16 'TRIM29'  
17 'FAM83A'  
18 'RBFOX3'  
19 'DOK7'  
20 'MANSC1'  
21 'FCGRT'  
22 'MAP1LC3A'  
23 'CENPV'  
24 'CHGB'  
25 'PCSK1N'  
26 'CRADD'  
27 'IGFBP2'  
28 'SORT1'  
29 'CD38'  
30 'CNNM1'  
31 'SLC45A1'  
32 'GABRA3'  
33 'GREM2'  
34 'AMOTL1'  
35 'RAB34'  
36 'EHF'  
37 'P4HA3'  
38 'TMC5'  
39 'HR'  
40 'KRT7'  
41 'UNC5D'  
42 'CST1'  
43 'CAVIN2'  
44 'SPINT2'  
45 'TMEM98'  
46 'MYEF2'  
47 'ZNF655'  
48 'PDE10A'  
49 'MAPK4'  
50 'LINGO1'  
51 'RBM20'  
52 'C9orf152'  
53 'IL11'  
54 'ARX'

55 'LOC1019275'  
56 'GALNT13'  
57 'CPS1'  
58 'GRAMD1B'  
59 'CERS1'  
60 'FOXA3'  
61 'JPH3'  
62 'SCEL'  
63 'TOX3'  
64 'UNC13A'  
65 'C6orf223'  
66 'ANKRD30A'  
67 'ASS1'  
68 'MARCH4'  
69 'ADRA1D'  
70 'MPV17L'  
71 'TC2N'  
72 'NOSTRIN'  
73 'GRID1'  
74 'DPYSL5'  
75 'INA'  
76 'RPH3A'  
77 'KLRC2'  
78 'ALDH2'  
79 'TSPAN8'  
80 'ERICH5'  
81 'GDF1'  
82 'SPTB'  
83 'RHOF'  
84 'GRIN3B'  
85 'PAPPA'  
86 'TMEM216'  
87 'WIPF1'  
88 'PDE3A'  
89 'GGT5'  
90 'C5AR2'  
91 'LMX1B'  
92 'SLC6A17'  
93 'LOC1053776'  
94 'BVES'  
95 'NPY4R'  
96 'WISP2'  
97 'ZNF620'  
98 'C1QTNF1'  
99 'LAMC2'  
100 'FAM155A'  
101 'CFAP300'  
102 'HOXB13'  
103 'EREG'  
104 'PLA2G16'  
105 'BMPR1B'  
106 'MANEAL'  
107 'TUBAL3'  
108 'FES'  
109 'TMEM190'  
110 'NR4A3'

111 'FXVD6'  
112 'TCF4'  
113 'KCNH2'  
114 'RLN1'  
115 'FKBP1B'  
116 'SPDEF'  
117 'NDUFA4L2'  
118 'ZIC5'  
119 'GALNT5'  
120 'EPHA10'  
121 'SIM2'  
122 'PLD5'  
123 'WDR72'  
124 'FST'  
125 'C15orf38-AP'  
126 'TMEM61'  
127 'REEP2'  
128 'CDH23'  
129 'KCNB1'  
130 'VTN'  
131 'PCDHA11'  
132 'SLC51B'  
133 'PEX11G'  
134 'PDE7B'  
135 'INPP1'  
136 'ZNF280A'  
137 'CPNE4'  
138 'LOC1053776'  
139 'SERPINB9'  
140 'AIFM3'  
141 'FGB'  
142 'NPNT'  
143 'PPL'  
144 'TMEM59L'  
145 'CFAP65'  
146 'SCRN1'  
147 'C4BPB'  
148 'XDH'  
149 'ARHGAP20'  
150 'DMBT1'  
151 'IL17RB'  
152 'SHH'  
153 'PTPRB'  
154 'COL4A6'  
155 'LUM'  
156 'OLIG1'  
157 'MUC2'  
158 'JAM3'  
159 'RORC'  
160 'TAGLN'  
161 'SMIM31'  
162 'VIPR1'  
163 'PDE8B'  
164 'TNFAIP8L2-ε'  
165 'SLC52A3'  
166 'SALL4'

167 'PDE1C'  
168 'ZFP28'  
169 'HAP1'  
170 'RAET1E'  
171 'ENO3'  
172 'ERVMER34-1'  
173 'TOGARAM2'  
174 'LOC1053743'  
175 'EDN1'  
176 'SOWAHB'  
177 'MYO15B'  
178 'ULBP1'  
179 'LGSN'  
180 'ZNF385C'  
181 'ST8SIA4'  
182 'EVC2'  
183 'GABRB3'  
184 'PSG4'  
185 'ISPD'  
186 'MMP28'  
187 'FAM174B'  
188 'CSF2RA'  
189 'BRINP1'  
190 'IGSF1'  
191 'SERPINI1'  
192 'MN1'  
193 'MSMP'  
194 'LOC1122679'  
195 'CD1D'  
196 'DHRS2'  
197 'LOC1053785'  
198 'ZNF285'  
199 'TBX1'  
200 'ZNF614'  
201 'NALCN'  
202 'UPK1A'  
203 'KRT4'  
204 'GCOM1'  
205 'WNT10B'  
206 'NPR3'  
207 'PEX6'  
208 'CIB2'  
209 'PADI2'  
210 'ADAP1'  
211 'ABHD14A'  
212 'LOC1027247'  
213 'NOTCH3'  
214 'TM4SF4'  
215 'RGS11'  
216 'IL2RG'  
217 'MTSS1'  
218 'MSLN'  
219 'RAET1G'  
220 'KCNJ2'  
221 'CYP2S1'  
222 'OTP'

223 'FLRT3'  
224 'KLHL3'  
225 'ABCC8'  
226 'SYN1'  
227 'PHYHIPL'  
228 'ST14'  
229 'THSD4'  
230 'NFASC'  
231 'PTK7'  
232 'TCF21'  
233 'SLC9A3R2'  
234 'SLC16A6'  
235 'CSGALNACT  
236 'ZNF185'  
237 'SH3RF3'  
238 'GNRH2'  
239 'NPY4R2'  
240 'WNT4'  
241 'PALM3'  
242 'SLX4IP'  
243 'ENTPD2'  
244 'TM7SF2'  
245 'DIO2'  
246 'SGPP2'  
247 'LOC728392'  
248 'ITGA10'  
249 'SELENOP'  
250 'FRMD3'  
251 'BMPER'  
252 'ZNF806'  
253 'TGM2'  
254 'LOC1027241  
255 'TMEM156'  
256 'DDIT4L'  
257 'ADCY5'  
258 'LSMEM2'  
259 'PGM5'  
260 'PAQR5'  
261 'CNTNAP3B'  
262 'APOD'  
263 'SLC16A5'  
264 'ABCA3'  
265 'OSBP2'  
266 'RHBDL3'  
267 'HIST1H2AI'  
268 'GALNT17'  
269 'TJP3'  
270 'IFITM2'  
271 'BMP4'  
272 'DLL4'  
273 'SEPT4'  
274 'NOXO1'  
275 'AFAP1'  
276 '112267922'  
277 'CST2'  
278 'ADRB2'

279 'ANKRD20A4'  
280 'PSG5'  
281 'BIN2'  
282 'GPR37'  
283 'ARHGEF9'  
284 'LARGE2'  
285 'ANKRD1'  
286 'PHACTR2'  
287 'FAM167B'  
288 'SCD5'  
289 'ALPP'  
290 'PECAM1'  
291 'DNAH3'  
292 'GALNT16'  
293 'NEIL1'  
294 'OR51E2'  
295 'NRXN2'  
296 'CXCL1'  
297 'GOLT1A'  
298 'FBLIM1'  
299 'GPCPD1'  
300 'PLAU'  
301 'HIST2H4B'  
302 'HIST2H4A'  
303 'KCNN1'  
304 'ARHGEF38'  
305 'LPAR5'  
306 'BDH1'  
307 'CPT1C'  
308 'COL17A1'  
309 'PCDHB6'  
310 'HIST1H3H'  
311 'TSPAN18'  
312 'C1GALT1C1I  
313 'AQP3'  
314 'SYNPO2'  
315 'CCL20'  
316 'PRSS23'  
317 'FAM83E'  
318 'CD22'  
319 'TMEM105'  
320 'STEAP2'  
321 'CELF2'  
322 'IGSF9B'  
323 'ESRP1'  
324 'ADGRG6'  
325 'LTB'  
326 'KLK10'  
327 'CFD'  
328 'HLA-DMB'  
329 'CCDC106'  
330 'BMP8B'  
331 'ACOX2'  
332 'RASGRP4'  
333 'TCP10L'  
334 'PCDHGA2'

335 'BMP7'  
336 'CEACAM1'  
337 'SERPINA3'  
338 'CLIP3'  
339 'KHK'  
340 'PPM1E'  
341 'ZNF853'  
342 'CCDC181'  
343 'HIST1H2BO'  
344 'EPPK1'  
345 'ARSG'  
346 'PCDHGA7'  
347 'SYP'  
348 'MADCAM1'  
349 'PRH1-TAS2F'  
350 'C2orf15'  
351 'INHBE'  
352 'TMEM91'  
353 'TMSB4X'  
354 'GRIK2'  
355 'JUP'  
356 'HYAL1'  
357 'NES'  
358 'CHD5'  
359 'GFI1'  
360 'ZNF214'  
361 'DENND1C'  
362 'CADM4'  
363 'STEAP1'  
364 'COL16A1'  
365 'FXWD3'  
366 'LOC150051'  
367 'RND1'  
368 'MPL'  
369 'KLHDC8A'  
370 'ADAP2'  
371 'DGKA'  
372 'ARMH1'  
373 'CXADR'  
374 'SYPL2'  
375 'ROR2'  
376 'WAS'  
377 'HIST1H2AK'  
378 'BDKRB2'  
379 'SYT12'  
380 'FAM189A2'  
381 'MYPN'  
382 'LETM2'  
383 'FSCN2'  
384 'MYORG'  
385 'TRIM67'  
386 'EXOC3L2'  
387 'CD55'  
388 'MAFK'  
389 'SARM1'  
390 'ADARB1'

391 'NT5E'  
392 'IGSF11'  
393 'SIK1B'  
394 'LOC1079846'  
395 'TM4SF1'  
396 'KIAA1324L'  
397 'NKPD1'  
398 'SLC6A20'  
399 'FOXD4L5'  
400 'PSAPL1'  
401 'NR4A1'  
402 'PGBD1'  
403 'MFAP5'  
404 'SNAP25'  
405 'EPB41L4A'  
406 'CTIF'  
407 'CPEB4'  
408 'BIK'  
409 'TP53I11'  
410 'FCGBP'  
411 'ZFHX2'  
412 'HBEGF'  
413 'GGT1'  
414 'HIST1H2AC'  
415 'CD302'  
416 'DNASE1L2'  
417 'SLC45A4'  
418 'SLIT2'  
419 'SYCP2'  
420 'NAPSA'  
421 'TMTC2'  
422 'CELSR3'  
423 'NYAP1'  
424 '105373132'  
425 'PRKCG'  
426 'ABHD1'  
427 'EDIL3'  
428 'H1FX'  
429 'GJD3'  
430 'PCDHB11'  
431 'TNNT2'  
432 'ODF3B'  
433 'LOC388436'  
434 'LOC79999'  
435 'RNFT2'  
436 'BTBD3'  
437 'ANGEL1'  
438 'EFL1'  
439 'LCP1'  
440 'N4BP3'  
441 'TP63'  
442 'EFR3B'  
443 'SLC23A2'  
444 'PI3'  
445 'S100A16'  
446 'RINL'

447 'PLD3'  
448 'LAG3'  
449 'NR4A2'  
450 'PARD6A'  
451 'CNTNAP3C'  
452 'TTC9'  
453 'SLC12A2'  
454 'PLEKHH1'  
455 'SLC4A11'  
456 'CYP1A1'  
457 'MLC1'  
458 'SCG2'  
459 'SERPINB7'  
460 'MROH8'  
461 'WNT9A'  
462 'PALMD'  
463 'DUSP1'  
464 '105379575'  
465 'FAM241A'  
466 'MYH14'  
467 'C1orf56'  
468 'ANXA13'  
469 'ESAM'  
470 'MYO7A'  
471 'CRIP1'  
472 'PIGZ'  
473 'HDDC3'  
474 'ERBB3'  
475 'SIRPB1'  
476 'ENO2'  
477 'PPP1R3E'  
478 'UPK3B'  
479 'AMPH'  
480 'SEMA4A'  
481 'SPIB'  
482 'FZD9'  
483 'CASP9'  
484 'LMTK3'  
485 'AP4S1'  
486 'IGFBP5'  
487 'ARHGAP25'  
488 'TTC6'  
489 'ANTXR1'  
490 'FCER1G'  
491 'DDTL'  
492 'BAIAP3'  
493 'VWA7'  
494 'PDE8A'  
495 'LRP11'  
496 'LIPH'  
497 'SYT5'  
498 'TIGD3'  
499 'STRA6'  
500 'RAPGEF4'  
501 'RENBP'  
502 'SPTSSA'

503 'ARFGEF3'  
504 'SOX2'  
505 'PLXNA2'  
506 'GLDC'  
507 'PORCN'  
508 'C11orf52'  
509 'CLCN5'  
510 'ETHE1'  
511 'MAN1C1'  
512 'MST1R'  
513 'IGF2'  
514 'TUBB3'  
515 'LY6G5C'  
516 'VAV1'  
517 'PCDHAC1'  
518 'PTP4A1'  
519 'SH3BP1'  
520 'CHRNA4'  
521 'MARCH9'  
522 'POLR2L'  
523 'RASGRP1'  
524 'ZNF80'  
525 'DCHS1'  
526 'TPM2'  
527 'ASAH1'  
528 'TMC7'  
529 'RAB15'  
530 'RASGRP2'  
531 'LOC1079865'  
532 'SPIN3'  
533 'XK'  
534 'C12orf76'  
535 'INHA'  
536 'AHNAK2'  
537 'C11orf24'  
538 'OAS1'  
539 'SPOCK3'  
540 'GLI1'  
541 'MCOLN3'  
542 'OR7E24'  
543 'SBK2'  
544 'ARMCX5-GP'  
545 'CNTD2'  
546 'DHCR7'  
547 'JCHAIN'  
548 'ACP5'  
549 'SPINT1'  
550 'SH3TC2'  
551 'GFOD1'  
552 'IL1B'  
553 'TMEM151A'  
554 'TLE2'  
555 'SMIM6'  
556 'LIMCH1'  
557 'LSR'  
558 'SPATA7'

559 'HIST2H2BE'  
560 'FURIN'  
561 'BMI1'  
562 'TLE6'  
563 'FNTB'  
564 'LOC1122682'  
565 'PTPRU'  
566 'MEGF8'  
567 'ITPRIP'  
568 'LOC1019277'  
569 'SAT1'  
570 'KCTD6'  
571 'PODXL'  
572 'PTPRA'  
573 'TMEM254'  
574 'PTMS'  
575 'PRAF2'  
576 'CD226'  
577 'SUN3'  
578 'KRT13'  
579 'SLAMF8'  
580 'PTGDS'  
581 'RGS7'  
582 'NKD1'  
583 'ZSWIM5'  
584 'PTPN21'  
585 'FN3K'  
586 'TMEM230'  
587 'GPHN'  
588 'FOXD4'  
589 'PRAG1'  
590 'ADSSL1'  
591 'MCF2L'  
592 'AK3'  
593 'RNF19A'  
594 'HGSNAT'  
595 'LOC1053731'  
596 'LACC1'  
597 'NECTIN3'  
598 'FGFBP1'  
599 'CD99L2'  
600 'NBDY'  
601 'MED13L'  
602 'AMPD3'  
603 'SPIN2B'  
604 'EPAS1'  
605 'TECPR2'  
606 'CASKIN1'  
607 'KLF2'  
608 'SLC17A7'  
609 'RFESD'  
610 'SLC25A45'  
611 'SLC22A4'  
612 'ERMP1'  
613 'C11orf74'  
614 'PCYOX1L'

615 'POLN'  
616 'MISP3'  
617 'SYT1'  
618 'PIK3IP1'  
619 'TRAPPC2'  
620 'MREG'  
621 'IGFL2'  
622 'ZNF362'  
623 'MDP1'  
624 'SMKR1'  
625 'LOC1019285'  
626 'FAM198B'  
627 'GPRC5A'  
628 'NRGN'  
629 'GP6'  
630 'WDR97'  
631 'CD46'  
632 'LOC1019272'  
633 'SLC46A3'  
634 'FLNB'  
635 'CBLN3'  
636 'ZNF654'  
637 'SNORC'  
638 'ZNF575'  
639 'SLC27A5'  
640 'PLP2'  
641 'ANKRD9'  
642 'ATP6V0E2'  
643 'CNTN5'  
644 'ARHGAP26'  
645 'GVQW3'  
646 'TP53I3'  
647 'NEGR1'  
648 'HIST1H2BD'  
649 'OPN3'  
650 'TMEM147'  
651 'SYT11'  
652 'FAM71F2'  
653 'AUTS2'  
654 'COMMD3-BL'  
655 'RCAN3'  
656 'SMN1'  
657 'GPR132'  
658 'TNFSF15'  
659 'TMEM132A'  
660 'FAM72D'  
661 'APBA1'  
662 'ARIH2OS'  
663 'PTPRR'  
664 'LOC1027242'  
665 'RASD1'  
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1468 'SUPT20HL2'  
1469 'HSPB6'  
1470 'CABLES2'  
1471 'IL17RE'  
1472 'KANK3'  
1473 'RTN3'  
1474 'RHPN1'  
1475 'UBD'  
1476 'AAMDC'  
1477 'FLNA'  
1478 'TTC17'  
1479 'TSPAN6'  
1480 'SDHAF2'  
1481 'MTRNR2L2'  
1482 'KLHL30'  
1483 'TSC22D3'  
1484 'THBD'  
1485 'MSMO1'  
1486 'ZNF34'  
1487 'LOC1079860'  
1488 'MC1R'  
1489 'STK35'  
1490 'HCFC2'  
1491 'IKZF2'  
1492 'HFE'  
1493 'ZNF30'  
1494 'ITGB5'  
1495 'LIME1'  
1496 'DOCK5'  
1497 'IL6ST'  
1498 'ABCA5'  
1499 'SMG9'  
1500 'STK26'  
1501 'PANO1'  
1502 'PGPEP1'  
1503 'TMEM138'  
1504 'TUFT1'  
1505 'KAT6A'  
1506 'MBLAC2'  
1507 'ONECUT1'  
1508 'PANK4'  
1509 'ZNF224'  
1510 'RPS27L'

1511 'CLCF1'  
1512 'CIT'  
1513 'LIN7B'  
1514 'LOC1079874'  
1515 'PCLO'  
1516 'SMIM10L2A'  
1517 'SLC22A23'  
1518 'PPP1R14C'  
1519 'FXVD5'  
1520 'CD177'  
1521 'TTC13'  
1522 'CNIH2'  
1523 'BLCAP'  
1524 'SLC29A1'  
1525 'REEP6'  
1526 'RTL5'  
1527 'ACACB'  
1528 'IL18BP'  
1529 'OAS3'  
1530 'CDC42EP3'  
1531 'SERPINB8'  
1532 'CD320'  
1533 'PHF21B'  
1534 'GDPGP1'  
1535 'NFKBIE'  
1536 'FBXL20'  
1537 'SLC36A1'  
1538 'SRGAP3'  
1539 'ABCC3'  
1540 'FOXA2'  
1541 'CLIC2'  
1542 'MCMDC2'  
1543 'MAGI3'  
1544 'SLC8A2'  
1545 'SH3PXD2A'  
1546 'CCPG1'  
1547 'MGST3'  
1548 'NAT1'  
1549 'MAP2K1'  
1550 'SOX4'  
1551 'LOC390937'  
1552 'TSGA10'  
1553 'C1GALT1C1'  
1554 'ANKRD37'  
1555 'APH1B'  
1556 'TPPP'  
1557 'SIPA1L3'  
1558 'RASL10A'  
1559 'PLPP6'  
1560 'HOXC13'  
1561 'P3H4'  
1562 'NPIP13'  
1563 'RAD9A'  
1564 'FKBP9'  
1565 'DOC2A'  
1566 'KRTAP2-3'

1567 'SQLE'  
1568 'MYL12A'  
1569 'HYAL3'  
1570 'LOC1079857'  
1571 'AIP'  
1572 'GDI1'  
1573 'PPP1R9A'  
1574 'ARHGEF18'  
1575 'ZFAND4'  
1576 'FRMD6'  
1577 'ZFYVE26'  
1578 'PDZD11'  
1579 'PLCL2'  
1580 'DBP'  
1581 'LMBRD2'  
1582 'ZNF274'  
1583 'LOC1009966'  
1584 'NAALADL2'  
1585 'XKR6'  
1586 'PSD'  
1587 'NCF1'  
1588 'SSPN'  
1589 'PLEKHG3'  
1590 'CEP126'  
1591 'CYSRT1'  
1592 'GDAP1'  
1593 'CALCOCO1'  
1594 'FUT4'  
1595 'ELL2'  
1596 'NFKBIA'  
1597 'C5AR1'  
1598 'EFEMP2'  
1599 'ACSS2'  
1600 'BTBD9'  
1601 'CNNM2'  
1602 'RABGGTA'  
1603 'KLHL17'  
1604 'SHISA9'  
1605 'ZBTB3'  
1606 'SH2D6'  
1607 'IQCD'  
1608 'ISG20'  
1609 'FICD'  
1610 'DNAJB2'  
1611 'PHF7'  
1612 'BTBD11'  
1613 'DNAJC27'  
1614 'SERF1B'  
1615 'ACTR3B'  
1616 'EMC1'  
1617 'HIST1H1C'  
1618 'RASSF1'  
1619 'PRX'  
1620 'LOC401478'  
1621 'ARHGEF10'  
1622 'CFAP44'

1623 'EIF4G3'  
1624 'CCSER2'  
1625 'TMEM143'  
1626 'MOCS2'  
1627 'FAM200A'  
1628 'NAGK'  
1629 'ITPRID2'  
1630 'ARSA'  
1631 'SELENOW'  
1632 'POLI'  
1633 'MTRNR2L9'  
1634 'SLC37A2'  
1635 'AMT'  
1636 'MAN2B2'  
1637 'C4orf46'  
1638 'IER2'  
1639 'ARHGAP45'  
1640 'NUDT17'  
1641 'SSBP2'  
1642 'PCNX2'  
1643 'SIDT2'  
1644 'GSK3B'  
1645 'ARSK'  
1646 'LOC1079842'  
1647 'SIX4'  
1648 'LY6E'  
1649 'GAA'  
1650 'RNF150'  
1651 'NSFL1C'  
1652 'PTP4A3'  
1653 'GAN'  
1654 'GPR89B'  
1655 'NECTIN2'  
1656 'BBS5'  
1657 'NLRX1'  
1658 'ZKSCAN4'  
1659 'RRAGD'  
1660 'ZNF527'  
1661 'TAP1'  
1662 'RAD17'  
1663 'ARL6IP5'  
1664 'LOC1053769'  
1665 'SCD'  
1666 'ABHD15'  
1667 'C11orf45'  
1668 'EPHA2'  
1669 'FAM156A'  
1670 'TRAF6'  
1671 'ZNF181'  
1672 'C20orf194'  
1673 'INPP5D'  
1674 'SLC20A2'  
1675 'COMMD6'  
1676 'IFNGR1'  
1677 'FKBP7'  
1678 'GRK5'

1679 'SAA2'  
1680 'PYROXD2'  
1681 'OSTM1'  
1682 'CELF5'  
1683 'STX12'  
1684 'GPD1L'  
1685 'NHLRC3'  
1686 'ENTPD5'  
1687 'VSIR'  
1688 'HSPG2'  
1689 'MAFA'  
1690 'SLC30A4'  
1691 'C6orf203'  
1692 'CDSN'  
1693 'PIWIL4'  
1694 'FGF1'  
1695 'SULT1C4'  
1696 'ABCB5'  
1697 'ITGB7'  
1698 'ZNF749'  
1699 'CAMK2B'  
1700 'FRMPD3'  
1701 'KBTBD8'  
1702 'GABBR2'  
1703 'ANKRA2'  
1704 'KCNMB4'  
1705 'MANEA'  
1706 'CDK5R2'  
1707 'PLBD2'  
1708 'FAM214A'  
1709 'TLN2'  
1710 'SYNGAP1'  
1711 'SLC35E3'  
1712 'ANKRD49'  
1713 'ANO8'  
1714 'LOC1005075'  
1715 'ZNF397'  
1716 'NXPH4'  
1717 'ZFP36'  
1718 'CPLANE1'  
1719 'NAAA'  
1720 'NUDT4B'  
1721 'TMEM106C'  
1722 'DHX29'  
1723 'NDUFA7'  
1724 'CATSPERG'  
1725 'GOLGA8B'  
1726 'ADAM22'  
1727 'MTMR11'  
1728 'TRPV1'  
1729 'PLEKHB1'  
1730 'RDH13'  
1731 'IQSEC1'  
1732 'LOC1079861'  
1733 'IER3'  
1734 'BAAT'

1735 'PYGM'  
1736 'SBF2'  
1737 'CUL9'  
1738 'FOXC1'  
1739 'RNF32'  
1740 'OGT'  
1741 'TMEM40'  
1742 'C3orf20'  
1743 'FUT10'  
1744 'ZFP90'  
1745 'MCOLN2'  
1746 'MTRNR2L3'  
1747 'STARD4'  
1748 'CERS5'  
1749 'FOXN2'  
1750 'TBCEL'  
1751 'TFPI2'  
1752 'AGAP11'  
1753 'GPR156'  
1754 'AMN'  
1755 'ARHGEF28'  
1756 'TBC1D2B'  
1757 'TOB1'  
1758 'LDLRAP1'  
1759 'TMEM50A'  
1760 'HIST1H3E'  
1761 'HGFAC'  
1762 'TUBA4A'  
1763 'VEGFB'  
1764 'SUPT3H'  
1765 'WBP1L'  
1766 'HSD11B1L'  
1767 'PRKAB2'  
1768 'NEIL2'  
1769 'ATP6V1FNB'  
1770 'NR3C2'  
1771 'MMP15'  
1772 'TMEM150A'  
1773 'TP53I13'  
1774 'POLB'  
1775 'IRGQ'  
1776 'SAP25'  
1777 'AVIL'  
1778 'MST1L'  
1779 'RASGRP3'  
1780 'NCAM2'  
1781 'PRKCE'  
1782 'MAFB'  
1783 'CNPPD1'  
1784 'ILK'  
1785 'OPTN'  
1786 'HEXB'  
1787 'TMEM136'  
1788 'CPT1B'  
1789 'NME4'  
1790 'PWP2'

1791 'CEP164'  
1792 'ZNF211'  
1793 'NEMP1'  
1794 'MTRNR2L1'  
1795 'CLU'  
1796 'DUSP6'  
1797 'MMP25'  
1798 'PQLC3'  
1799 'NOTCH2NLE  
1800 'INKA2'  
1801 'CDKN1A'  
1802 'CCDC17'  
1803 'ACTN1'  
1804 'TRAF5'  
1805 'FAM241B'  
1806 'ZNF596'  
1807 'AMHR2'  
1808 'KCNQ1'  
1809 'CHRD'  
1810 'TAF12'  
1811 'MSANTD4'  
1812 'NBPF20'  
1813 'RNF26'  
1814 'CKB'  
1815 'RANBP6'  
1816 'ZKSCAN1'  
1817 'C19orf57'  
1818 'PRRG1'  
1819 'TNFSF12'  
1820 'LETMD1'  
1821 'CDCA7L'  
1822 'ABHD4'  
1823 'TRNP1'  
1824 'DPYSL2'  
1825 '107985971'  
1826 'LRRC24'  
1827 'AKAP6'  
1828 'CDC42'  
1829 'SMAD3'  
1830 'FZD8'  
1831 'EHD1'  
1832 'ARID1A'  
1833 'ULBP2'  
1834 'TNFSF13B'  
1835 'ADAM28'  
1836 'ABCA4'  
1837 'SYCE2'  
1838 'LAMA4'  
1839 'RAG1'  
1840 'TTC14'  
1841 'SLC38A9'  
1842 'CLDN9'  
1843 'PIDD1'  
1844 'DDR1'  
1845 'NCSTN'  
1846 'TRIM68'

1847 'TNFRSF10A'  
1848 'ZNF18'  
1849 'TSPAN14'  
1850 'NPIP12'  
1851 'PARP15'  
1852 'CTSZ'  
1853 'GOLGA8A'  
1854 'KSR2'  
1855 'LOC391322'  
1856 'DPF1'  
1857 'BORCS8'  
1858 'STK19'  
1859 'LBHD1'  
1860 'LY6G5B'  
1861 'NHS'  
1862 'ENC1'  
1863 'CORO2B'  
1864 'HHIPL2'  
1865 'FBXO36'  
1866 'C3orf18'  
1867 'TMEM189-UE  
1868 'SULT1C2'  
1869 'GPSM3'  
1870 'PRELP'  
1871 'KCNC4'  
1872 'KLHDC7A'  
1873 'NUTM2B'  
1874 'NBPF10'  
1875 'IQCN'  
1876 'CADM1'  
1877 'IDNK'  
1878 'ETFRF1'  
1879 'BCAS3'  
1880 'DUSP5'  
1881 'PERP'  
1882 'NAA40'  
1883 'WNK4'  
1884 'STXBP6'  
1885 'DDX60L'  
1886 'ARL6'  
1887 'SPATA12'  
1888 'RIOK3'  
1889 'PCNX4'  
1890 'ARCN1'  
1891 'BCORL1'  
1892 'IFT122'  
1893 'CCDC15'  
1894 'KCTD11'  
1895 'PC'  
1896 'TMEM265'  
1897 'EML2'  
1898 'ZNF615'  
1899 'TLL1'  
1900 'SUGCT'  
1901 'PRR36'  
1902 'CCDC62'

1903 'EZH1'  
1904 'ELOA'  
1905 'PRICKLE2'  
1906 'DOCK4'  
1907 'TTC12'  
1908 'LOC1079861'  
1909 'SC5D'  
1910 'COL11A2'  
1911 'KCNJ14'  
1912 'MTRNR2L6'  
1913 'FAM89A'  
1914 'ZNF789'  
1915 'NOXA1'  
1916 'LPAR2'  
1917 'TMED7-TICA'  
1918 'TMIE'  
1919 'CD109'  
1920 'EXOC6B'  
1921 'B3GNT7'  
1922 'MTX3'  
1923 'ANKRD36B'  
1924 'GGT7'  
1925 'KRBA2'  
1926 'TUBG2'  
1927 'SAMD8'  
1928 'PTPRF'  
1929 'CRTC1'  
1930 'LOC1079846'  
1931 'EXTL3'  
1932 'PAFAH1B2'  
1933 'UTS2B'  
1934 'LAD1'  
1935 'SPIRE2'  
1936 'NUTM2A'  
1937 'LIN7C'  
1938 'APOE'  
1939 'CROT'  
1940 'PMEPA1'  
1941 'FYCO1'  
1942 'STOML1'  
1943 'LYPD3'  
1944 'KNDC1'  
1945 'MLPH'  
1946 'ATP10A'  
1947 'CLSTN3'  
1948 'PPP2R5B'  
1949 'CCBE1'  
1950 'HMGCS1'  
1951 'RSRP1'  
1952 'PPM1N'  
1953 'SYNC'  
1954 'MT2A'  
1955 'GYS1'  
1956 'AGO3'  
1957 'CCDC69'  
1958 'ODAPH'

1959 'TMEM74'  
1960 'ZFYVE9'  
1961 'S1PR3'  
1962 'FAM160B1'  
1963 'CAMKMT'  
1964 'PKD1L2'  
1965 'COLGALT2'  
1966 'HIST1H2BC'  
1967 'ZBTB49'  
1968 'PALM2-AKAF  
1969 'OTUD1'  
1970 'SPACA9'  
1971 'NBPF14'  
1972 'SLPI'  
1973 'INAFM2'  
1974 'WDR44'  
1975 'HERC3'  
1976 'MAP3K12'  
1977 'VKORC1'  
1978 'MAPK8IP2'  
1979 'ATG16L2'  
1980 'BIRC2'  
1981 'SLC43A2'  
1982 'ARL15'  
1983 'TBC1D3H'  
1984 'ZNF561'  
1985 'TOLLIP'  
1986 'CTSB'  
1987 'EIF3CL'  
1988 'TSPAN1'  
1989 'ZSWIM6'  
1990 'TP53INP1'  
1991 'IRAK2'  
1992 'TMEM35B'  
1993 'EML6'  
1994 'LOC1079842  
1995 'LRRN4CL'  
1996 'GRK4'  
1997 'ZGLP1'  
1998 'NEU1'  
1999 'SH2B2'  
2000 'MAP2K3'  
2001 'CMPK2'  
2002 'PER2'  
2003 'NKIRAS2'  
2004 'SFR1'  
2005 'CAP2'  
2006 'TMEM182'  
2007 'TMEM236'  
2008 'C1orf226'  
2009 'HINFP'  
2010 'BNIP3L'  
2011 'WNT3'  
2012 'KPNA5'  
2013 'FAR1'  
2014 'ARID4A'

2015 'TRAM2'  
2016 'ZNF792'  
2017 'PLCG2'  
2018 'TMEM59'  
2019 'FAM131B'  
2020 'MICAL2'  
2021 'SMURF2'  
2022 'PPOX'  
2023 'TCTN1'  
2024 'TRAM1'  
2025 'GATA3'  
2026 'QSOX1'  
2027 'SNX19'  
2028 'RELT'  
2029 'PIGS'  
2030 'PBLD'  
2031 'NUDCD3'  
2032 'ATM'  
2033 'ARC'  
2034 'MOSMO'  
2035 'TSNARE1'  
2036 'ITIH2'  
2037 'C15orf62'  
2038 'RIMBP3C'  
2039 'IQCH'  
2040 'NRBP2'  
2041 'NPIP11'  
2042 'MCTP2'  
2043 'SLC41A2'  
2044 'ATP8B1'  
2045 'EDA2R'  
2046 'TM7SF3'  
2047 'ZNF493'  
2048 'CDKAL1'  
2049 'TGFB111'  
2050 'SLC39A13'  
2051 'EFNA2'  
2052 'TCEA2'  
2053 'NPIPA8'  
2054 'DOCK3'  
2055 'YAP1'  
2056 'PDK4'  
2057 'UBAP1L'  
2058 'FLAD1'  
2059 'LCA5'  
2060 'CITED1'  
2061 'CCNO'  
2062 'GOLGA6L3'  
2063 'GALNT2'  
2064 'PHLDB3'  
2065 'DYRK1B'  
2066 'SMPD1'  
2067 'BTD'  
2068 'AKAP13'  
2069 'PAX9'  
2070 'NPIP4'

2071 'KLF7'  
2072 'RUNDC1'  
2073 'PPARGC1B'  
2074 'RNF208'  
2075 'ISYNA1'  
2076 'FAM222A'  
2077 'KCTD17'  
2078 'ATP8B2'  
2079 'PLAUR'  
2080 'SLC30A1'  
2081 'NUDT16'  
2082 'KBTBD3'  
2083 'S100A11'  
2084 'CHRNA10'  
2085 'RHPN2'  
2086 'MARCKS'  
2087 'NCALD'  
2088 'MYO5B'  
2089 'SLC16A4'  
2090 'ARID3A'  
2091 'HPS5'  
2092 'CEMIP2'  
2093 'LONRF2'  
2094 'NPIPA2'  
2095 'PRICKLE4'  
2096 'SP6'  
2097 'SESN1'  
2098 'DNASE1L1'  
2099 'LOC1079872'  
2100 'PRPF40B'  
2101 'TTC32'  
2102 'SMIM14'  
2103 'MANBA'  
2104 'SCX'  
2105 'SLC12A7'  
2106 'FAM228B'  
2107 'PLOD1'  
2108 'CD274'  
2109 'FNDC3B'  
2110 'HOXA1'  
2111 'ACER2'  
2112 'APLP2'  
2113 'UBE4A'  
2114 'TRIM21'  
2115 'ZNF512B'

Supplementary Table 4: Common genes upregulated in 786-O SUNR and AXIR and A498 SUNR and AXIR

1 'LIMCH1'  
2 'PRXL2A'  
3 'TNFSF12'  
4 'AUTS2'  
5 'RRAGD'  
6 'TP53I11'  
7 'SUN3'  
8 'IGFBP2'  
9 'TMEM40'  
10 'ERICH5'  
11 'C4BPB'  
12 'TMEM98'  
13 'AQP1'  
14 'PHLDB3'  
15 'APBA1'  
16 'TUBB4A'  
17 'CELF2'  
18 'TAGLN'  
19 'ERVMER34-1'  
20 'ADAM28'  
21 'ATP8B2'  
22 'LRFN3'  
23 'RENBP'  
24 'TSPAN18'  
25 'PCSK9'  
26 'MLPH'  
27 'FAM89A'  
28 'GATA3'  
29 'FCGRT'  
30 'SORL1'  
31 'KCNK6'  
32 'KLHL30'  
33 'LPL'  
34 'NPR3'  
35 'C11orf52'  
36 'PSG5'  
37 'HIST1H3E'  
38 'PIK3IP1'  
39 'NOXA1'  
40 'PLXNA2'  
41 'C1orf115'  
42 'AMDHD1'  
43 'PHF21B'  
44 'MYH14'  
45 'MEIS3'  
46 'IGFBP5'  
47 'XK'  
48 'PCDHB11'  
49 'TFAP2C'  
50 'LY6G5C'  
51 'PSG1'  
52 'SFMBT2'  
53 'C11orf45'  
54 'GRIN3B'

55 'TMEM59L'  
56 'TNNT2'  
57 'NPNT'  
58 'FN3K'  
59 'OAS1'  
60 'NME4'  
61 'IL2RG'  
62 'ATP8B1'  
63 'CPA4'  
64 'PSG4'  
65 'PLEKHB1'  
66 'MARCH4'  
67 'PDGFRL'  
68 'PAX9'  
69 'ZNF362'  
70 'DGKA'  
71 'CYP1A1'  
72 'TRAF5'  
73 'KRT81'  
74 'PEX11G'  
75 'MYO7A'  
76 'MCF2L'  
77 'TMEM236'  
78 'ALPI'  
79 'CSF2RA'  
80 'CCDC85A'  
81 'PTP4A3'  
82 'BIRC7'  
83 'SCD5'  
84 'ADRB2'  
85 'C5AR1'  
86 'CYS1'  
87 'HIST1H2AK'  
88 'HID1'  
89 'GALNT18'  
90 'IGFL2'  
91 'SLC4A8'  
92 'GJD3'  
93 'RASGRP3'  
94 'FAM189A2'  
95 'NEIL1'  
96 'MN1'  
97 'CXADR'  
98 'ALPP'  
99 'RAET1G'  
100 'ASS1'  
101 'LOC101928589'  
102 'C15orf62'  
103 'GRK5'  
104 'CCDC181'  
105 'SEMA4A'  
106 'GSTO2'  
107 'PPFIBP2'  
108 'GCNT4'  
109 'HIST1H2AI'  
110 'BATF2'

111 'DACT1'  
112 'NCALD'  
113 'MCOLN3'  
114 'ACP5'  
115 'ZNF285'  
116 'CTGF'  
117 'MSLN'  
118 'TNFSF13B'  
119 'PADI2'  
120 'C1orf226'  
121 'DHRS2'  
122 'SPDEF'  
123 'WNT4'  
124 'RNF150'  
125 'NRXN2'  
126 'SORT1'  
127 'PLA2G16'  
128 'NCAM2'  
129 'LCP1'  
130 'LOC107984282'  
131 'SLC9A3R2'  
132 'SHISA9'  
133 'TMC6'  
134 'LYPD3'  
135 'CFAP300'  
136 'DBNDD1'  
137 'TMEM178A'  
138 'CST2'  
139 'INSR'  
140 'ZSWIM5'  
141 'MAFA'  
142 'LOC390937'  
143 'ADAP1'  
144 'DPYSL2'  
145 'MMP25'  
146 'EPB41L4A'  
147 'PTK7'  
148 'DBNDD2'  
149 'LIPH'  
150 'CEACAM1'  
151 'CD177'  
152 'LOC107987464'  
153 'IGF2'  
154 'SEPT4'  
155 'GLT8D2'  
156 'VSIR'  
157 'SARM1'  
158 'RASGRF1'  
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166 'LY6E'

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168 'SHBG'  
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174 'CYSTM1'  
175 'GOLGA8M'  
176 'CSPG5'  
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178 'ARC'  
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196 'RASL10A'  
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199 'MLC1'  
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202 'GNRH2'  
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204 'PRKCG'  
205 'VTN'  
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237 'PLCG2'  
238 'DOK7'  
239 'ARMH1'  
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261 'TLE2'  
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263 'ZFAND4'  
264 'NKPD1'  
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266 'PAIP2B'  
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272 'PLEKHH1'  
273 'MAFK'  
274 'GOLGA8R'  
275 'TMEM136'  
276 'PLCXD2'  
277 'RBM20'  
278 'GRK4'

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282 'THBD'  
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285 'CPT1B'  
286 'PSORS1C1'  
287 'PTPRU'  
288 'NPY4R2'  
289 '112267922'  
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291 'NAALADL2'  
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293 'POLN'  
294 'SNORC'  
295 'NOTCH3'  
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298 'ST8SIA4'  
299 'MMP28'  
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303 'GOLGA8J'  
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311 'NEU1'  
312 'HIST1H2AC'  
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314 'EHD1'  
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322 'GDPD5'  
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330 'OGT'  
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352 'EFEMP2'  
353 'RAB30'  
354 'NR3C2'  
355 'HINFP'  
356 'ARHGEF28'  
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361 'MMP15'  
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363 'ZDHHC11'  
364 'LGR4'  
365 'RHPN1'  
366 'TUBB2A'  
367 'ZFYVE26'  
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369 'ITGA6'  
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371 'OLIG2'  
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373 'CD226'  
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377 'KRBA2'  
378 'ZNF385C'  
379 'TIGD3'  
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381 'GGT5'  
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383 'SYPL2'  
384 'IL1B'  
385 'FAM177B'  
386 'LSP1'  
387 'SOBP'  
388 'NIPSNAP3B'  
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390 'KLK10'

391 'C14orf132'  
392 'PYGM'  
393 'SELENOP'  
394 'SBK2'  
395 'NCF1'  
396 'XDH'  
397 'FCGBP'  
398 'HNRNPPLL'  
399 'GABBR2'  
400 'GPRASP1'  
401 'C19orf33'  
402 'RALGAPA2'  
403 'TUBB2B'  
404 'PPP1R3C'  
405 'HIST1H2BK'  
406 'GOLGA8N'  
407 'NKIRAS2'  
408 'RIN3'  
409 'TAP1'  
410 'INCA1'  
411 'ASAH1'  
412 'UPK3B'  
413 'MTRNR2L3'  
414 'PRICKLE4'  
415 'NPIPB9'  
416 'SNX19'  
417 'GCNT3'  
418 'HIST1H2BD'  
419 'YAP1'  
420 'ZNF181'  
421 'FOXC1'  
422 'CITED1'  
423 'MYEF2'  
424 'NYAP1'  
425 'ZNF792'  
426 'YIPF6'  
427 'PIWIL4'  
428 'GABRB3'  
429 'ST3GAL1'  
430 'C2orf15'  
431 'SLC9A7'  
432 'SDCBP2'  
433 'ERBB3'  
434 'TBCEL'  
435 'ABCA5'  
436 'USP11'  
437 'TGFB3'  
438 'SNX24'  
439 'APOOL'  
440 'NUTM2B'  
441 'FAM110A'  
442 'IFNGR1'  
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444 'FAM241B'  
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446 'ARRB1'

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449 'CIB2'  
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452 'COL11A2'  
453 'APOE'  
454 'DCHS1'  
455 'RIOK3'  
456 'NR4A2'  
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458 'PIDD1'  
459 'BAMBI'  
460 'ADAMTSL4'  
461 'SIAE'  
462 'TGFB111'  
463 'RNF214'  
464 'ST14'  
465 'CAMKMT'  
466 'PCED1A'  
467 'PGPEP1'  
468 'TPRG1L'  
469 'UBE4A'  
470 'CDSN'  
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472 'TRAM2'  
473 'CCSER2'  
474 'SSPN'  
475 'NECTIN2'  
476 'LIN7C'  
477 'BNIP3L'  
478 'LOC107987269'  
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480 'MGST3'  
481 'TPPP'  
482 'SULT1C4'  
483 'CEP126'  
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486 'PRKCE'  
487 'OPTN'  
488 'NR4A1'  
489 'CEP164'  
490 'NAGK'  
491 'PPM1N'  
492 'TUFT1'  
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494 'FSCN2'  
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503 'CAP2'  
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507 'STAMBPL1'  
508 'IL17RE'  
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510 'TMIE'  
511 'DOCK5'  
512 'LOC107984115'  
513 'REEP3'  
514 'BMP8B'  
515 'MARCKS'  
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517 'NSFL1C'  
518 'FRMPD3'  
519 'ATM'  
520 'LTB4R2'  
521 'SLC16A2'  
522 'ARHGDIB'  
523 'UHRF1BP1'  
524 'NFKBIE'  
525 'ILK'  
526 'IRS1'  
527 'DNAJB2'  
528 'WBP1L'  
529 'XKR6'  
530 'BMP7'  
531 'RUFY2'  
532 'BBS5'  
533 'ZNF517'  
534 'ZFYVE9'  
535 'NPIP4'  
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537 'SLC36A1'  
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558 'INPP1'

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563 'TEAD1'  
564 'ARHGEF10'  
565 'HIST1H2BO'  
566 'ARSK'  
567 'ABCC10'  
568 'VAMP2'  
569 'MTRNR2L6'  
570 'HIST1H4H'  
571 'BCAS3'  
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573 'DPAGT1'  
574 'HYAL1'  
575 'ZNF274'  
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578 'ALDH7A1'  
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591 'TOGARAM1'  
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594 'APLP2'  
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602 'SERPINA3'  
603 'CPNE4'  
604 'IGSF11'  
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609 'KCNJ2'  
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613 'DNAH3'  
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615 'CACNG7'  
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622 'CD1D'  
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624 'EIF1AD'  
625 'EXTL3'  
626 'DDX60L'  
627 'C20orf194'  
628 'TMEM230'  
629 'MTRNR2L8'  
630 'TMOD2'  
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632 'SCRN1'  
633 'EFL1'  
634 'ARCN1'  
635 'CARF'  
636 'ACP6'  
637 'DUSP8'  
638 'APMAP'  
639 'C15orf65'  
640 'GAN'  
641 'LYRM9'  
642 'ITPRID2'  
643 'ADARB1'  
644 'PTPRA'  
645 'FUT4'  
646 'EXD2'  
647 'OGDH'  
648 'CEP89'  
649 'PCYOX1'  
650 'EDIL3'  
651 'RTN3'  
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653 'GABBR1'  
654 'MTRNR2L10'  
655 'ZBTB49'  
656 'SMIM29'  
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671 'ZNF337'  
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679 'HIST2H4A'  
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682 'MOSPD2'  
683 'RP2'  
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685 'CCDC17'  
686 'KSR1'  
687 'TUBG2'  
688 'ZNF30'  
689 'SLC25A45'  
690 'POLB'  
691 'VPS13C'  
692 'TTC5'  
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696 'SLC30A1'  
697 'MTRNR2L9'  
698 'ATL3'  
699 'NAA40'  
700 'SNRPN'  
701 'ZNF567'  
702 'HCFC2'  
703 'SDHAF2'  
704 'BCLAF3'  
705 'KCNJ14'  
706 'BLCAP'  
707 'ZNF749'  
708 'KLHL28'  
709 'RNF166'  
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711 'STK35'  
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713 'TIAF1'  
714 'FAM89B'  
715 'NECTIN1'  
716 'EML2'  
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722 'ZDHHC23'  
723 'FBLIM1'  
724 'ESAM'  
725 'TNFSF15'  
726 'ZNF512B'

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728 'BTD'  
729 'KLF7'  
730 'GPR137'  
731 'CLCN4'  
732 'GSK3B'  
733 'TOB1'  
734 'PRSS23'  
735 'HCCS'  
736 'AMPD3'  
737 'ROBO1'  
738 'HEXB'  
739 'SNURF'  
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741 'MTMR9'  
742 'ZNF419'  
743 'HINT3'  
744 'ULK3'  
745 'EZH1'  
746 'PPP2R5B'  
747 'PDSS2'  
748 'GPRC5A'  
749 'OR7E24'  
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751 'ZNF224'  
752 'UPRT'  
753 'AP4S1'  
754 'VPS37C'  
755 'SLC17A7'  
756 'REEP6'  
757 'CYSRT1'  
758 'FOXN2'  
759 'TIMM10B'  
760 'LIME1'  
761 'PTPRB'  
762 'TMEM138'  
763 'SEC31B'  
764 'SUPT3H'  
765 'KBTBD3'  
766 'CLPTM1'  
767 'FAM156A'  
768 'AGO3'  
769 'RAD17'  
770 'ZXDB'  
771 'NR4A3'  
772 'RASA2'  
773 'MTRNR2L2'  
774 'BORCS8'  
775 'TCP11L2'  
776 'SOS2'  
777 'TTC12'  
778 'ACTN1'  
779 'SPIN3'  
780 'SPANXB1'  
781 'RUNDC1'  
782 'TMEM106B'

783 'FITM2'  
784 'STEAP2'  
785 'TRIM35'  
786 'ZFP90'  
787 'GADD45B'  
788 'LOC391322'  
789 'HIST1H2AG'  
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791 'BIRC2'  
792 'PRRG1'  
793 'MINDY3'  
794 'ALS2CL'  
795 'MANBA'  
796 'TSPAN14'  
797 'OGA'  
798 'FYCO1'  
799 'ZNF397'  
800 'IQSEC1'  
801 'TECPR2'  
802 'HSD11B1L'  
803 'INTS5'  
804 'SH3BGRL'  
805 'SERTAD1'  
806 'FAM214A'  
807 'SCAMP5'  
808 'LIMD1'  
809 'CARMIL2'  
810 'ARX'  
811 'PDE3A'  
812 'MREG'  
813 'ERMARD'  
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815 'SLC38A9'  
816 'GOLGA8A'  
817 'POLR2G'  
818 'GOLGA8H'  
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820 'FAM162A'  
821 'DHX29'  
822 'TP53INP2'  
823 'CGRRF1'  
824 'FBXL20'  
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826 'EIF3CL'  
827 'RHPN2'  
828 'SLC45A4'  
829 'TMEM42'  
830 'CALCOCO1'  
831 'ZNF211'  
832 'NUDT16'  
833 'TOX4'  
834 'BMP8A'  
835 'FRMD3'  
836 'AKAP6'  
837 'SRR'  
838 'PLBD2'

839 'RFESD'  
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843 'DUSP5'  
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847 'SMPD1'  
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849 'EEFSEC'  
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855 'FAM131B'  
856 'PIGS'  
857 'PAFAH1B2'  
858 'FAM135A'  
859 'TSGA10'  
860 'UBE2D4'  
861 'SLC9A6'  
862 'RFK'  
863 'SMURF2'  
864 'C6orf226'  
865 'FICD'  
866 'C20orf27'  
867 'C1orf56'  
868 'ACYP2'  
869 'TSPAN6'  
870 'LPAR2'  
871 'RNF19A'  
872 'FAM155A'  
873 'COQ5'  
874 'ELL2'  
875 'SRGAP3'  
876 'LRRC24'  
877 'HGSNAT'  
878 'CHST7'  
879 'SMN1'  
880 'FKBP1A'  
881 'BCORL1'  
882 'H1FX'  
883 'LTB4R'  
884 'CYFIP2'  
885 'ERMP1'  
886 'ZNF473'  
887 'MAP2K3'  
888 'LPP'  
889 'ZNF343'  
890 'SERGEF'  
891 'ZNF654'  
892 'TMEM267'  
893 'CAST'  
894 'PIGH'

895 'C11orf71'  
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901 'MED29'  
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906 'CST3'  
907 'POLR2L'  
908 'H6PD'  
909 'TIMM17B'  
910 'CADM1'  
911 'UBE3D'  
912 'EXOC5'  
913 'CMTM1'  
914 'HES4'  
915 'GM2A'  
916 'ZIC5'  
917 'NUDCD3'  
918 'TBCB'  
919 'MAP2K5'  
920 'RNF208'  
921 'DMXL2'  
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924 'SNX14'  
925 'MST1'  
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929 'TKFC'  
930 'MANEA'  
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932 'TP63'  
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934 'MAN2B2'  
935 'CLSTN1'  
936 'ZNF526'  
937 'PANO1'  
938 'TBC1D25'  
939 'INKA2'  
940 'WDR54'  
941 'LRRN4CL'  
942 'ENPP4'  
943 'EPHA10'  
944 'KCNN1'  
945 'PRKAB2'  
946 'CATSPERG'  
947 'WAS'  
948 'TRAPPC6B'  
949 'SLC35A5'  
950 'ZSWIM6'

951 'LBHD1'  
952 'NDST2'  
953 'TLN2'  
954 'NUTM2E'  
955 'KLC1'  
956 'DOCK4'  
957 'GOLGA8B'  
958 'NUTM2A'  
959 'APH1B'  
960 'MIF4GD'  
961 'SYCE2'  
962 'C11orf74'  
963 'LOC107986596'  
964 'TENT5A'  
965 'CPLANE1'  
966 'AKTIP'  
967 'MRPS21'  
968 'HDHD2'  
969 'AK3'  
970 'LRIF1'  
971 'LOC107983998'  
972 'ARL6'  
973 'INTS9'  
974 'RNGTT'  
975 'BICRAL'  
976 'HDDC3'  
977 'NFAT5'  
978 'ITGB1'  
979 'CD151'  
980 'AGAP11'  
981 'SLC43A2'  
982 'COQ6'  
983 'HIST2H2AA4'  
984 'HIST2H2AA3'  
985 'GPR157'  
986 'ERLIN2'  
987 'ARAF'  
988 'EDN1'  
989 '107985971'  
990 'B3GNT9'  
991 'NAT1'  
992 'SIPA1L3'  
993 'SPOCK3'  
994 'CAPNS1'  
995 'NPIPA8'  
996 'SELENON'  
997 'ZNF788P'  
998 'IQSEC2'  
999 'TMEM175'  
1000 'ZSCAN21'  
1001 'HHIPL2'  
1002 'SPIN2B'  
1003 'MOCS2'  
1004 'BRF1'  
1005 'CTNNBIP1'  
1006 'TTC13'

1007 'MAP2K1'  
1008 'CTSZ'  
1009 'SIDT2'  
1010 'DPH3'  
1011 'SERF1B'  
1012 'DYNLT3'  
1013 'ZDHHC2'  
1014 'SHH'  
1015 'KCTD11'  
1016 'ZNF34'  
1017 'RRAS'  
1018 'SEL1L'  
1019 'SLX4IP'  
1020 'WDR7'  
1021 'TGM1'  
1022 'KRTAP2-3'  
1023 'FAM228B'  
1024 'CPEB4'  
1025 'NUTM2D'  
1026 'ATP6AP2'  
1027 'TMSB4X'  
1028 'SAP25'  
1029 'NBPF1'  
1030 'UNC13B'  
1031 'CHD7'  
1032 'TMEM59'  
1033 'SENP8'  
1034 'FRMD6'  
1035 'LDOC1'  
1036 'NUBPL'  
1037 'GLRB'  
1038 'SCN1B'  
1039 'C3orf20'  
1040 'NPDC1'  
1041 'NEK9'  
1042 'KAT6A'  
1043 'UBIAD1'  
1044 'GFOD1'  
1045 'CUL9'  
1046 'KCTD17'  
1047 'ANO8'  
1048 'KMT2B'  
1049 'ATG2B'  
1050 'SOX4'  
1051 'SH2B2'  
1052 'SYNPO2'  
1053 'SYNGAP1'  
1054 'KIF13B'  
1055 'VIPAS39'  
1056 'SOCS5'  
1057 'DNASE1L1'  
1058 'MYO5A'  
1059 'RTL8C'  
1060 'LIFR'  
1061 'CCNO'  
1062 'PARP15'

1063 'ADCK1'  
1064 'GPD1L'  
1065 'LACC1'  
1066 'MAPK1IP1L'  
1067 'ACSS2'  
1068 'MTX3'  
1069 'TM9SF1'  
1070 'MAP3K10'  
1071 'GMFB'  
1072 'MAN2A2'  
1073 'AHCYL2'  
1074 'KCND1'  
1075 'GGT7'  
1076 'LOC102724250'  
1077 'CKB'  
1078 'TIMP1'  
1079 'RAB4B'  
1080 'NMNAT1'  
1081 'LMBRD2'  
1082 'ZC3H10'  
1083 'C10orf88'  
1084 'TINF2'  
1085 'FAM222A'  
1086 'TEP1'  
1087 'BCDIN3D'  
1088 'OXCT2'  
1089 'ARHGAP5'  
1090 'CBLB'  
1091 'ABHD14A'  
1092 'ZNF589'  
1093 'MED13L'  
1094 'PPP1R3E'  
1095 'PLAU'  
1096 'SGSM2'  
1097 'SEMA3C'  
1098 'PROSER3'  
1099 'POLI'  
1100 'ZNF81'  
1101 'MLH3'  
1102 'SLC39A9'  
1103 'C19orf54'  
1104 'TRAPPC2'  
1105 'FNTA'  
1106 'R3HDM2'  
1107 'TMED10'