ETV2

Figure 2B

SykI (1μM)  Rapamycin (20nM)

37
SykI (1µM) — + —
Rapamycin (20nM) — — +

72

FIGURE 2B

pSYK
Figure 2B

- SykI (1µM)
- Rapamycin (20nM)

pp70S6K

70
SykI (1µM) + Rapamycin (20nM)
ETV2

FIGURE 2D

|     | T | N | T | N |
|-----|---|---|---|---|
| SykI (1µM) | — | — | + | + |
| Rapamycin (20nM) | — | — | — | — |
|        | T | N | T | N |
|--------|---|---|---|---|
| SykI (1μM) | − | − | + | + |
| Rapamycin (20nM) | − | − | − | − |

**GAPDH**

**FIGURE 2D**
PARP

FIGURE 2D

T N T N

SykI (1µM) — — — —
Rapamycin (20nM) — — + +
SykI (1 µM)  
Rapamycin (20 nM)

GAPDH

FIGURE 2D

T N T N

—— — — — —  
—— — + + +  

T N T N

—— — — — —  
—— — + + +  

GAPDH
FIGURE 3B

BACTIN

| siRNA | Scr ETV2 |
|-------|---------|

42
pEIF-α

FIGURE 4F
Figure 4F

ELF-alpha

38
PARP (116) and cPARP (89)
SUPP FIGURE 2D

HISTONE

TOTAL
SCR  SYK

NUC
SCR  SYK

19
SUPP FIGURE 2D

PARP

|      | TOTAL | NUC |
|------|-------|-----|
| SCR  |       |     |
| SYK  |       |     |

116
SUPP FIGURE 3B

TUBERIN

200

SCRET2V
SUPP FIGURE 4B

BACTIN

SCR  ETV2

42
cPARP

SUPP FIGURE 4B
|          | DMSO | SykI | Rapamycin |
|----------|------|------|-----------|
| Figure 2A | 0.961| 0.839| 1.315     |
|          | 0.965| 0.956| 1.100     |
|          | 1.074| 1.360| 1.438     |

**DMSO v. SykI**

- DMSO v. SykI: p = 0.8085

**DMSO v. Rapamycin**

- DMSO v. Rapamycin: p = 0.5513

|          | DMSO | SykI | Rapamycin |
|----------|------|------|-----------|
| Figure 2B | 0.709| 0.683| 0.671     |
|          | 0.578| 0.444| 0.579     |
|          | 0.978| 0.979| 0.641     |
|          | 2.186| 1.445| 1.588     |
|          | 0.549| 0.572| 0.782     |

**DMSO v. SykI**

- DMSO v. SykI: p = 0.1991

**DMSO v. Rapamycin**

- DMSO v. Rapamycin: p = 0.5513
|        | DMSO | SykI | DMSO | Rapamycin |
|--------|------|------|------|-----------|
|        | 0.760| 1.431| 1.501| 1.186     |
|        | 1.409| 2.451| 0.539| 0.280     |
|        | 0.831| 1.659| 0.959| 0.705     |

DMSO v. SykI  
DMSO v. Rapamycin  
p = 0.0040  
p = 0.0905
| Figure 3A | Figure 3C | Figure 3E |
|-----------|-----------|-----------|
| Scr siRNA | Etv2 siRNA | Scr siRNA | Etv2 siRNA | Scr siRNA | Etv2 siRNA |
| 1.00      | 0.00      | 1.00      | 0.45       | 19.00     | 42.10      |
| 1.00      | 0.10      | 1.00      | 0.30       | 27.40     | 52.00      |
| 1.00      | 0.48      | 1.00      | 0.60       | 11.00     | 22.90      |
| 1.00      | 0.30      | 1.00      | 0.80       |           |            |

Scr v. Etv2  
**p = 0.0054**  
**p = 0.0227**  
**p = 0.0384**

| Figure 3G | Figure 3H | Figure 3I |
|-----------|-----------|-----------|
| Scr siRNA | Etv2 siRNA | Scr siRNA | Etv2 siRNA | Scr siRNA | Etv2 siRNA |
| 1.00      | 2.80      | 1.00      | 1.30       | 1.00      | 3.40       |
| 1.00      | 3.60      | 1.00      | 2.30       | 1.00      | 5.20       |
| 1.00      | 1.80      | 1.00      | 1.40       | 1.00      | 6.00       |
| 1.00      | 2.70      | 1.00      | 2.40       | 1.00      | 4.00       |
| 1.00      | 1.90      | 1.00      | 1.60       |           |            |

Scr v. Etv2  
**p = 0.0091**  
**p = 0.0255**  
**p = 0.0083**

| Figure 3K |
|-----------|
| Scr siRNA | Etv2 siRNA |
| 28        | 65         |
| 9         | 92         |
| 47        | 184        |
| 50        | 100        |
| 30        | 219        |
| 12        | 119        |
| 32        | 136        |
| 20        | 198        |
| 22        | 128        |
| 26        | 152        |
| 52        | 151        |
| 35        | 146        |
| 22        | 69         |
| 21        | 84         |
| 24        | 100        |
| 18        | 28         |
| 34        | 9          |
| 11        | 28         |
| 46        | 9          |
|   |   |
|---|---|
| 67 | 66 |
| 35 | 74 |
| 16 | 73 |
| 5  | 197|
| 3  | 55 |
| 30 | 76 |
| 25 | 68 |
| 14 | 96 |
| 5  | 111|
| 21 | 41 |
| 6  | 69 |
| 6  | 10 |
| 10 | 141|
| 24 | 6  |
| 36 | 126|
| 12 | 6  |
| 4  | 136|
| 48 | 27 |
| 0  | 10 |
| 71 | 30 |
| 29 | 14 |
| 10 | 58 |
| 14 | 28 |
| 45 | 17 |
| 27 | 29 |
| 47 | 15 |
| 15 | 2  |
| 19 | 54 |
| 15 | 61 |
| 17 | 7  |
| 22 | 2  |
| 30 | 47 |
| 4  | 72 |
| 29 | 0  |
| 47 | 68 |
| 10 | 46 |
| 40 | 57 |
| 13 | 52 |
| 19 | 3  |
| 66 | 55 |
| 22 | 0  |
| 48 | 66 |
| 45 | 44 |
| 29 | 26 |
| 57 | 53 |
|   |   |
|---|---|
| 1 | 33 |
| 29 | 84 |
| 6  | 43 |
| 5  | 66 |
| 8  | 32 |
| 0  | 101 |
| 27 | 69 |
| 12 | 70 |
| 25 | 42 |
| 27 | 144 |
| 32 | 37 |
| 33 | 43 |
| 44 | 26 |
| 28 | 87 |
| 20 | 23 |
| 19 | 52 |
| 34 | 178 |
| 113| 30 |
| 24 | 50 |
| 28 | 19 |
| 59 | 70 |
| 59 | 40 |
| 22 | 83 |
| 16 | 23 |
| 56 | 66 |
| 35 | 30 |
| 9  | 9  |
| 32 | 1  |
| 9  | 19 |
| 12 | 88 |
| 116| 18 |
| 22 | 9  |
| 23 | 18 |
| 73 | 23 |
| 102| 36 |
| 2  | 67 |
| 72 | 34 |
| 28 | 2  |
| 9  | 24 |
| 12 | 24 |
| 33 | 51 |
| 75 | 33 |
| 35 | 111 |
| 56 | 13 |
| 11 | 13 |
Scr v. Etv2
p = 2.621E-06
### Figure 4A

|          | Scr siRNA | Etv2 siRNA |
|----------|-----------|------------|
| **DMSO** | 1.00      | 0.53       |
|          | 1.00      | 0.30       |
|          | 0.20      | 1.00       |
| **SykI** | 0.90      | 1.00       |
|          | 0.66      | 0.64       |
|          | 0.20      | 0.31       |
| **Rapamycin** | 0.40 | 0.20 |
|          | 0.27      | 0.17       |

**P-Values - T-Test**

- Scr siRNA: DMSO vs. SykI 0.026
- Scr siRNA: DMSO vs. Rapamycin 0.013
- Scr siRNA: SykI vs. Rapamycin 0.030 1.896E-09
- Etv2 siRNA: DMSO vs. SykI 0.003
- Etv2 siRNA: DMSO vs. Rapamycin 0.001
- Etv2 siRNA: SykI vs. Rapamycin 0.153
- Scr siRNA DMSO vs. Etv2 siRNA DMSO 0.001
- Scr siRNA DMSO vs. Etv2 siRNA SykI 3.437E-07
- Scr siRNA DMSO vs. Etv2 siRNA Rapamycin 1.896E-09
- Scr siRNA Rapamycin vs. Etv2 siRNA Rapamycin 0.116

### Figure 4B

|          | pGL3_Basic | pGL3_promoter-150 | pGL3_promoter-386 |
|----------|------------|--------------------|--------------------|
| **pGL3_Basic** | 0.29 | 0.82 | 3.42 |
|          | 0.36 | 1.22 | 8.09 |
|          | 1.05 | 0.96 | 3.15 |
|          | 0.88 | 1.04 | 3.39 |
|          | 0.23 | 1.12 | 3.54 |
|          | 0.75 | 0.84 | 4.66 |
|          | 0.42 | 0.66 | 7.14 |
|          | 0.62 | 1.83 | 4.5  |
|          |       | 0.51 | 8.56 |
|          |       | 0.89 | 7.08 |
|          |       | 1.02 | 3.34 |
|          |       | 1.09 | 4.04 |
| **pGL3_Basic** | 0.37 | 0.83 | 1.53 |
|          | 0.83 | 0.8 | 1.53 |
|          | 0.8 | 0.66 | 0.66 |
|          | 0.8 | 0.98 | 0.98 |
|          | 0.78 | 0.78 | 0.78 |
|          |       | 0.68 | 0.68 |
| **pGL3_promoter-150** | 0.91 | 1.02 | 0.78 |
|          | 0.97 | 0.97 | 0.78 |
|          | 0.63 | 0.63 | 0.75 |
|          | 1.3 | 1.3 | 0.75 |
|          | 0.6 | 0.6 | 0.75 |
|          | 1.5 | 1.5 | 0.75 |
|          | 1.09 | 1.09 | 1.07 |
| **pGL3_promoter-386** | 0.27 | 0.25 | 1.88 |
|          | 0.59 | 0.59 | 1.88 |
|          | 1.03 | 1.03 | 1.88 |
|          | 1.18 | 1.18 | 1.88 |
|          | 1.25 | 1.25 | 1.88 |
|          | 0.64 | 0.64 | 1.38 |
|          | 0.65 | 0.65 | 1.64 |
|          | 1.38 | 1.38 | 0.99 |

**p-Value**

- pGL3_Basic 0.1309
- pGL3_promoter-150 0.6048
- pGL3_promoter-386 1.2982E-05

### Figure 4C

| Scr siRNA | arpbp siRNA | Scr siRNA | arpbp siRNA | Scr siRNA | arpbp siRNA | Scr siRNA | arpbp siRNA | Scr siRNA | arpbp siRNA |
|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| 1.00      | 0.20         | 1.00      | 0.60         | 1.00      | 7.60         | 1.00      | 4.30         | 1.00      | 1.36         |
| 1.00      | 0.01         | 1.00      | 0.40         | 1.00      | 2.70         | 1.00      | 2.20         | 1.00      | 1.48         |
| 1.00      | 0.01         | 1.00      | 0.40         | 1.00      | 4.20         | 1.00      | 1.50         | 1.00      | 2.09         |
| 1.00      | 1.50         | 1.00      | 1.80         | 1.00      | 6.10         | 1.00      | 3.50         | 1.00      | 3.26         |
| 1.00      | 1.50         | 1.00      | 1.80         | 1.00      | 6.10         | 1.00      | 3.50         | 1.00      | 3.26         |

**p = 0.0048**  **Scr v. PARPBP**

**Scr v. PARPBP**

- p = 0.0153
- p = 0.0153

**Scr v. PARPBP**

- p = 0.0365
- p = 0.0316
### Figure 5B

|          | Scr siRNA | ETV2 siRNA |
|----------|-----------|------------|
| 4H       | 0.80      | 1.20       |
|          | 0.81      | 0.72       |
| 24H      | 0.59      | 0.67       |
|          | 1.31      | 0.43       |
| 48H      | 1.08      | 0.24       |
|          | 0.92      | 0.70       |

**Unpaired T-Test Scr v. Etv2**

|          | 4H   | 24H   | 48H   |
|----------|------|-------|-------|
| 4H       | 0.4591 | 0.0156 | 0.0348 |
| 24H      |       |       |       |
| 48H      |       |       |       |

### Figure 5C

| Scr siRNA | ETV2 siRNA |
|-----------|------------|
| 0.97      | 0.69       |
| 0.96      | 0.49       |
| 1.00      | 0.30       |
| 1.27      | 0.60       |
| 0.59      | 0.55       |

### Figure 5D

| Scr siRNA | ETV2 siRNA |
|-----------|------------|
| 0.97      | 0.69       |
| 0.96      | 0.49       |
| 1.00      | 0.30       |
| 1.27      | 0.60       |
| 0.59      | 0.55       |

**Scr v. Etv2**

\[ p = 0.0004 \]
### Supplementary Figure 1A

|        | Fabp5 | Trn3 | Psat1 |
|--------|-------|------|-------|
| DMSO   | 1.04  | 1.00 | 0.99  |
| Syk    | 0.09  | 0.07 | 0.08  |
| Rapa   | 0.06  | 0.06 | 0.06  |

|        | Trn3 | Serpina12 | Loc689757 |
|--------|------|------------|------------|
| DMSO   | 1.00 | 1.00       | 1.00       |
| Syk    | 0.21 | 0.21       | 0.21       |
| Rapa   | 0.11 | 0.12       | 0.12       |

### Supplementary Figure 1B

|        | Bub1  | Ska1  | Fancd2 |
|--------|-------|-------|--------|
| DMSO   | 1.00  | 1.00  | 1.00   |
| Syk    | 0.49  | 0.30  | 0.49   |
| Rapa   | 0.35  | 0.22  | 0.25   |

|        | Arhgap11a | Kif2c | Ube2c |
|--------|------------|-------|-------|
| DMSO   | 1.00       | 1.00  | 1.00  |
| Syk    | 0.53       | 0.67  | 0.55  |
| Rapa   | 0.28       | 0.05  | 0.24  |

### Supplementary Figure 1C

|        | Mospd2 |
|--------|--------|
| DMSO   | 1.00   |
| Syk    | 0.49   |
| Rapa   | 0.35   |

### Supplementary Figure 1D

|        | Vof16  | Loc100360867 | Tcp1112 |
|--------|--------|--------------|---------|
| DMSO   | 1.07   | 1.00         | 1.00    |
| Syk    | 4.09   | 3.96         | 5.78    |
| Rapa   | 3.33   | 2.69         | 5.94    |

|        | Itga8  | Edn1         | Col8a1  |
|--------|--------|--------------|---------|
| DMSO   | 0.99   | 0.99         | 0.98    |
| Syk    | 4.40   | 3.96         | 3.16    |
| Rapa   | 3.74   | 4.09         | 4.80    |

|        | Dusp6  | Cyp3a9       |
|--------|--------|--------------|
| DMSO   | 0.98   | 1.02         |
| Syk    | 6.26   | 4.51         |
| Rapa   | 6.47   | 1.30         |
| Scr siRNA | Syk siRNA | Scr v. Syk | p       |
|----------|----------|------------|---------|
| 1.00     | 0.06     |            | 0.0011  |
| 1.00     | 0.15     |            | 0.0162  |
| 1.00     | 0.41     |            |         |
| 1.00     | 0.04     |            |         |

| Scr siRNA | Syk siRNA | Scr v. Syk | p       |
|----------|----------|------------|---------|
| 1.00     | 1.52     |            | 0.1528  |
| 1.00     | 1.41     |            |         |
| 1.00     | 0.88     |            |         |

| Scr siRNA | Syk siRNA | Scr v. Syk | p       |
|----------|----------|------------|---------|
| 1.00     | 1.80     |            | 0.0044  |
| 1.00     | 2.06     |            |         |
| 1.00     | 1.81     |            |         |
### Supplementary Figure 3A

| Scr siRNA | Etv2 siRNA |
|-----------|------------|
| 1.00      | 0.30       |
| 1.00      | 0.20       |
| 1.00      | 0.30       |
| 1.00      | 0.13       |

Scr v. Etv2 0.0002

### Supplementary Figure 3C

| Scr siRNA | Etv2 siRNA |
|-----------|------------|
| 1.00      | 0.75       |
| 1.00      | 0.60       |
| 1.00      | 0.71       |
| 1.00      | 0.65       |

Scr v. Etv2 p = 0.0014

### Supplementary Figure 3D

| Scr siRNA | Etv2 siRNA |
|-----------|------------|
| 1.00      | 1.26       |
| 1.00      | 1.09       |
| 1.00      | 0.86       |
| 1.00      | 1.04       |

Scr v. Etv2 p = 0.2510
| Supplementary Figure 4A | Supplementary Figure 4C |
|-------------------------|-------------------------|
| Scr siRNA  | Etv2 siRNA | Scr siRNA  | Etv2 siRNA |
| 1.00  | 0.34       | 1.00  | 0.44       |
| 1.00  | 0.28       | 1.00  | 0.72       |
| 1.00  | 0.60       | 1.00  | 0.69       |

Scr v. Etv2
p = 0.0132

Supplementary Figure 4D

| Scr siRNA  | Etv2 siRNA |
|------------|------------|
| 1.00  | 1.73       |
| 1.00  | 2.17       |
| 1.00  | 1.43       |

Scr v. Etv2
p = 0.0344
Supplementary Figure 2A

|        | SykI | Rapamycin |
|--------|------|-----------|
| DMSO   | 1.00 | 0.34      |
|        | 1.00 | 0.35      |
|        | 1.00 | 0.03      |
|        | 1.00 | 0.46      |

P-Value

- DMSO vs. SykI: 0.0052
- DMSO vs. Rapamycin: 0.0048
- SykI vs. Rapamycin: 0.0302

Supplementary Figure 2B

|        | ETV2 siRNA | PARPBP siRNA |
|--------|------------|--------------|
| Scr siRNA | 1.000     | 0.200        |
|          | 1.000     | 0.007        |
|          | 1.000     | 0.007        |

P-Value

- Scr siRNA vs. ETV2 siRNA: 0.0001
- Scr siRNA vs. PARPBP siRNA: 0.0048
- ETV2 siRNA vs. PARPBP siRNA: 0.2703