

qPCR data_Supplemental Figure 3B_OGT & OGA mRNA expression

Hep3B OGT

| Well | Sample Name | Ct | RQ | RQ Mean | ΔC_t | $-\Delta\Delta C_t$ |
|------|-------------|---------|--------|---------|--------------|---------------------|
| A1 | A | 27.094 | 1.0955 | 1.0872 | 8.4479 | 0.1316 |
| A2 | A | 27.2509 | 1 | | 8.5795 | 0 |
| A3 | A | 27.2658 | 1.1661 | | 8.3578 | 0.2217 |
| A4 | A-GAPDH | 18.6461 | | | | |
| A5 | A-GAPDH | 18.6714 | | | | |
| A6 | A-GAPDH | 18.908 | | | | |
| B1 | B | 27.1773 | 0.9318 | 0.9579 | 8.6814 | -0.1019 |
| B2 | B | 27.1879 | 0.967 | | 8.6279 | -0.0484 |
| B3 | B | 27.0309 | 0.9748 | | 8.6163 | -0.0368 |
| B4 | B-GAPDH | 18.4959 | | | | |
| B5 | B-GAPDH | 18.56 | | | | |
| B6 | B-GAPDH | 18.4146 | | | | |

HepG2 OGT

| Well | Sample Name | Ct | RQ | RQ Mean | ΔC_t | $-\Delta\Delta C_t$ |
|------|-------------|---------|--------|---------|--------------|---------------------|
| A1 | A | 27.4706 | 1.0795 | 1.0324 | 8.9968 | 0.1104 |
| A2 | A | 27.4536 | 1 | | 9.1072 | 0 |
| A3 | A | 27.5249 | 1.0176 | | 9.0821 | 0.0251 |
| A4 | A-GAPDH | 18.4738 | | | | |
| A5 | A-GAPDH | 18.3464 | | | | |
| A6 | A-GAPDH | 18.4428 | | | | |
| B1 | B | 28.2783 | 0.9697 | 0.9991 | 9.1516 | -0.0444 |
| B2 | B | 27.9515 | 1.0222 | | 9.0755 | 0.0317 |
| B3 | B | 27.9587 | 1.0053 | | 9.0996 | 0.0076 |
| B4 | B-GAPDH | 19.1267 | | | | |
| B5 | B-GAPDH | 18.876 | | | | |
| B6 | B-GAPDH | 18.8591 | | | | |

Hep3B OGA

| Well | Sample Name | C _T | RQ | RQ Mean | ΔC _T | $-\Delta\Delta C_T$ |
|------|-------------|----------------|--------|---------|-----------------|---------------------|
| A1 | A | 27.3073 | 1 | 1.0542 | 8.465 | 0 |
| A2 | A | 27.3135 | 1.0567 | | 8.3855 | 0.0795 |
| A3 | A | 27.1049 | 1.106 | | 8.3197 | 0.1453 |
| A4 | A-GAPDH | 18.8423 | | | | |
| A5 | A-GAPDH | 18.928 | | | | |
| A6 | A-GAPDH | 18.7852 | | | | |
| B1 | B | 25.5998 | 3.2564 | 3.136 | 6.7617 | 1.7033 |
| B2 | B | 26.0018 | 2.9982 | | 6.8809 | 1.5841 |
| B3 | B | 25.6629 | 3.1532 | | 6.8082 | 1.6568 |
| B4 | B-GAPDH | 18.8381 | | | | |
| B5 | B-GAPDH | 19.1209 | | | | |
| B6 | B-GAPDH | 18.8547 | | | | |

HepG2 OGA

| Well | Sample Name | C _T | RQ | RQ Mean | ΔC _T | $-\Delta\Delta C_T$ |
|------|-------------|----------------|--------|---------|-----------------|---------------------|
| A1 | A | 27.435 | 1.0575 | 1.0569 | 8.8677 | 0.0806 |
| A2 | A | 27.4569 | 1 | | 8.9483 | 0 |
| A3 | A | 27.3525 | 1.1132 | | 8.7936 | 0.1547 |
| A4 | A-GAPDH | 18.5673 | | | | |
| A5 | A-GAPDH | 18.5086 | | | | |
| A6 | A-GAPDH | 18.5589 | | | | |
| B1 | B | 26.4244 | 2.5489 | 2.6337 | 7.5984 | 1.3499 |
| B2 | B | 26.4109 | 2.7313 | | 7.4987 | 1.4496 |
| B3 | B | 26.6926 | 2.621 | | 7.5582 | 1.3901 |
| B4 | B-GAPDH | 18.826 | | | | |
| B5 | B-GAPDH | 18.9122 | | | | |
| B6 | B-GAPDH | 19.1344 | | | | |