qPCR data_Supplemental Figure 3C_OGA mRNA stability assay

**Hep3B cell**

| Well | Sample Name | Cт | RQ | RQ Mean | ΔCт | ΔΔCт | Time elapsed | Annotation |
|---|---|---|---|---|---|---|---|---|
| A1 | A | 27.385 | 1.0072 | 1.0037 | -0.0103 | 0.0103 | **A-0h** | A = NC group |
| A2 | A | 27.3454 | 0.9659 | | 0.0501 | -0.0501 | | B = sh-RANBP2 group |
| A3 | A | 27.2941 | 1.0382 | | -0.0541 | 0.0541 | | |
| A4 | A-18S | 18.7638 | 1.0133 | 0.9834 | -0.019 | 0.019 | | |
| A5 | A-18S | 18.9236 | 0.9286 | | 0.1068 | -0.1068 | | |
| A6 | A-18S | 18.7764 | 1.0083 | | -0.0119 | 0.0119 | | |
| A7 | A-β-Actin | 17.4305 | 1.0185 | 1.0059 | -0.0264 | 0.0264 | | |
| A8 | A-β-Actin | 17.4405 | 1.0332 | | -0.0471 | 0.0471 | | |
| A9 | A-β-Actin | 17.5577 | 0.9659 | | 0.05 | -0.05 | | |
| B1 | B | 27.3446 | 1.0358 | 0.8958 | -0.0507 | 0.0507 | **A-2h** | |
| B2 | B | 27.6315 | 0.7921 | | 0.3362 | -0.3362 | | |
| B3 | B | 27.5666 | 0.8595 | | 0.2184 | -0.2184 | | |
| B4 | B-18S | 18.8926 | 0.9267 | 0.9534 | 0.1098 | -0.1098 | | |
| B5 | B-18S | 18.8267 | 0.9932 | | 0.0099 | -0.0099 | | |
| B6 | B-18S | 18.8773 | 0.9402 | | 0.089 | -0.089 | | |
| B7 | B-β-Actin | 17.4123 | 1.0314 | 0.9937 | -0.0446 | 0.0446 | | |
| B8 | B-β-Actin | 17.4744 | 1.0092 | | -0.0132 | 0.0132 | | |
| B9 | B-β-Actin | 17.5963 | 0.9404 | | 0.0886 | -0.0886 | | |
| C1 | C | 27.4606 | 0.9557 | 0.8329 | 0.0653 | -0.0653 | **A-4h** | |
| C2 | C | 27.7051 | 0.7527 | | 0.4098 | -0.4098 | | |
| C3 | C | 27.6877 | 0.7903 | | 0.3395 | -0.3395 | | |
| C4 | C-18S | 18.9328 | 0.9013 | 0.965 | 0.15 | -0.15 | | |
| C5 | C-18S | 18.83 | 0.9909 | | 0.0132 | -0.0132 | | |
| C6 | C-18S | 18.7842 | 1.0028 | | -0.0041 | 0.0041 | | |
| C7 | C-β-Actin | 17.6145 | 0.8965 | 0.9368 | 0.1576 | -0.1576 | | |
| C8 | C-β-Actin | 17.5594 | 0.9515 | | 0.0718 | -0.0718 | | |
| C9 | C-β-Actin | 17.5629 | 0.9625 | | 0.0552 | -0.0552 | | |
| D1 | D | 27.8694 | 0.7199 | 0.7456 | 0.4741 | -0.4741 | **A-6h** | |
| D2 | D | 27.6679 | 0.7724 | | 0.3726 | -0.3726 | | |
| D3 | D | 27.7739 | 0.7445 | | 0.4257 | -0.4257 | | |
| D4 | D-18S | 18.8634 | 0.9457 | 0.9168 | 0.0806 | -0.0806 | | |
| D5 | D-18S | 18.9572 | 0.9073 | | 0.1404 | -0.1404 | | |
| D6 | D-18S | 18.9442 | 0.8976 | | 0.1559 | -0.1559 | | |
| D7 | D-β-Actin | 17.6332 | 0.885 | 0.886 | 0.1763 | -0.1763 | | |
| D8 | D-β-Actin | 17.6405 | 0.8994 | | 0.1529 | -0.1529 | | |
| D9 | D-β-Actin | 17.7026 | 0.8736 | | 0.1949 | -0.1949 | | |
| E1 | E | 27.9082 | 0.7008 | 0.6977 | 0.5129 | -0.5129 | **A-8h** | |
| E2 | E | 27.7796 | 0.7148 | | 0.4843 | -0.4843 | | |
| E3 | E | 27.91 | 0.6775 | | 0.5618 | -0.5618 | | |
| E4 | E-18S | 18.9349 | 0.8999 | 0.9541 | 0.1521 | -0.1521 | | |
| E5 | E-18S | 18.8024 | 1.01 | | -0.0144 | 0.0144 | | |
| E6 | E-18S | 18.8586 | 0.9524 | | 0.0703 | -0.0703 | | |
| E7 | E-β-Actin | 17.7003 | 0.8448 | 0.8527 | 0.2434 | -0.2434 | | |
| E8 | E-β-Actin | 17.6957 | 0.8657 | | 0.2081 | -0.2081 | | |
| E9 | E-β-Actin | 17.7461 | 0.8477 | | 0.2384 | -0.2384 | | |
| F1 | F | 27.9934 | 0.6606 | 0.6389 | 0.5981 | -0.5981 | **A-12h** | |
| F2 | F | 27.9027 | 0.6564 | | 0.6074 | -0.6074 | | |

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|---|---|---|---|---|---|---|---|
| F3 | F | 28.0858 | 0.5997 | | 0.7376 | -0.7376 | |
| F4 | F-18S | 18.906 | 0.9181 | 0.9117 | 0.1232 | -0.1232 | |
| F5 | F-18S | 18.9 | 0.944 | | 0.0832 | -0.0832 | |
| F6 | F-18S | 18.9843 | 0.873 | | 0.196 | -0.196 | |
| F7 | F-β-Actin | 17.8532 | 0.7598 | 0.8118 | 0.3963 | -0.3963 | |
| F8 | F-β-Actin | 17.7137 | 0.8549 | | 0.2261 | -0.2261 | |
| F9 | F-β-Actin | 17.793 | 0.8206 | | 0.2853 | -0.2853 | |
| G1 | G | 27.4384 | 0.9706 | 0.9781 | 0.0431 | -0.0431 | **B-0h** |
| G2 | G | 27.2655 | 1.0209 | | -0.0298 | 0.0298 | |
| G3 | G | 27.4331 | 0.9428 | | 0.0849 | -0.0849 | |
| G4 | G-18S | 18.8177 | 0.9761 | 0.9881 | 0.0349 | -0.0349 | |
| G5 | G-18S | 18.8593 | 0.971 | | 0.0425 | -0.0425 | |
| G6 | G-18S | 18.7637 | 1.0172 | | -0.0246 | 0.0246 | |
| G7 | G-β-Actin | 17.571 | 0.924 | 0.987 | 0.1141 | -0.1141 | |
| G8 | G-β-Actin | 17.4815 | 1.0042 | | -0.0061 | 0.0061 | |
| G9 | G-β-Actin | 17.4613 | 1.0327 | | -0.0464 | 0.0464 | |
| H1 | H | 27.6362 | 0.8462 | 0.8411 | 0.2409 | -0.2409 | **B-2h** |
| H2 | H | 27.6292 | 0.7934 | | 0.3339 | -0.3339 | |
| H3 | H | 27.5265 | 0.8837 | | 0.1783 | -0.1783 | |
| H4 | H-18S | 18.9206 | 0.9089 | 0.9611 | 0.1378 | -0.1378 | |
| H5 | H-18S | 18.7165 | 1.072 | | -0.1003 | 0.1003 | |
| H6 | H-18S | 18.9367 | 0.9023 | | 0.1484 | -0.1484 | |
| H7 | H-β-Actin | 17.6188 | 0.8938 | 1.0025 | 0.1619 | -0.1619 | |
| H8 | H-β-Actin | 17.4135 | 1.0527 | | -0.0741 | 0.0741 | |
| H9 | H-β-Actin | 17.4225 | 1.0608 | | -0.0852 | 0.0852 | |
| I1 | I | 27.7956 | 0.7577 | 0.704 | 0.4003 | -0.4003 | **B-4h** |
| I2 | I | 27.8246 | 0.6929 | | 0.5293 | -0.5293 | |
| I3 | I | 27.9448 | 0.6613 | | 0.5966 | -0.5966 | |
| I4 | I-18S | 18.9285 | 0.9039 | 0.9562 | 0.1457 | -0.1457 | |
| I5 | I-18S | 18.8297 | 0.9911 | | 0.0129 | -0.0129 | |
| I6 | I-18S | 18.8271 | 0.9735 | | 0.0388 | -0.0388 | |
| I7 | I-β-Actin | 17.6191 | 0.8937 | 0.9166 | 0.1622 | -0.1622 | |
| I8 | I-β-Actin | 17.6453 | 0.8965 | | 0.1577 | -0.1577 | |
| I9 | I-β-Actin | 17.5671 | 0.9597 | | 0.0594 | -0.0594 | |
| J1 | J | 28.1278 | 0.6019 | 0.6035 | 0.7325 | -0.7325 | **B-6h** |
| J2 | J | 28.0157 | 0.6069 | | 0.7204 | -0.7204 | |
| J3 | J | 28.081 | 0.6017 | | 0.7328 | -0.7328 | |
| J4 | J-18S | 19.0321 | 0.8413 | 0.9074 | 0.2493 | -0.2493 | |
| J5 | J-18S | 18.9354 | 0.9211 | | 0.1186 | -0.1186 | |
| J6 | J-18S | 18.8475 | 0.9598 | | 0.0592 | -0.0592 | |
| J7 | J-β-Actin | 17.623 | 0.8912 | 0.8784 | 0.1661 | -0.1661 | |
| J8 | J-β-Actin | 17.7237 | 0.849 | | 0.2361 | -0.2361 | |
| J9 | J-β-Actin | 17.668 | 0.8948 | | 0.1603 | -0.1603 | |
| K1 | K | 28.3521 | 0.5152 | 0.5608 | 0.9568 | -0.9568 | **B-8h** |
| K2 | K | 28.1788 | 0.5421 | | 0.8835 | -0.8835 | |
| K3 | K | 28.0256 | 0.6253 | | 0.6774 | -0.6774 | |
| K4 | K-18S | 18.9516 | 0.8896 | 0.9364 | 0.1688 | -0.1688 | |
| K5 | K-18S | 18.8457 | 0.9802 | | 0.0289 | -0.0289 | |
| K6 | K-18S | 18.8786 | 0.9393 | | 0.0903 | -0.0903 | |
| K7 | K-β-Actin | 17.8512 | 0.7609 | 0.8126 | 0.3943 | -0.3943 | |
| K8 | K-β-Actin | 17.7666 | 0.8242 | | 0.279 | -0.279 | |
| K9 | K-β-Actin | 17.7375 | 0.8528 | | 0.2298 | -0.2298 | |

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|---|---|---|---|---|---|---|---|
| L1 | L | 28.1986 | 0.573 | 0.5244 | 0.8033 | -0.8033 | **B-12h** |
| L2 | L | 28.3513 | 0.481 | | 1.056 | -1.056 | |
| L3 | L | 28.294 | 0.5191 | | 0.9458 | -0.9458 | |
| L4 | L-18S | 19.0401 | 0.8367 | 0.9015 | 0.2573 | -0.2573 | |
| L5 | L-18S | 18.8618 | 0.9693 | | 0.045 | -0.045 | |
| L6 | L-18S | 18.9425 | 0.8986 | | 0.1542 | -0.1542 | |
| L7 | L-β-Actin | 17.764 | 0.8083 | 0.7897 | 0.3071 | -0.3071 | |
| L8 | L-β-Actin | 17.8879 | 0.7577 | | 0.4003 | -0.4003 | |
| L9 | L-β-Actin | 17.8241 | 0.8031 | | 0.3164 | -0.3164 | |

**HepG2 cell**

| Well | Sample Na | Cт | RQ | RQ Mean | ΔCт | ΔΔCт | Time elapsed | Annotation |
|---|---|---|---|---|---|---|---|---|
| A1 | A | 26.4418 | 1 | 1 | 0 | 0 | **A-0h** | A = NC group |
| A2 | A | 26.2541 | 1 | | 0 | 0 | | B = sh-RANBP2 group |
| A3 | A | 26.424 | 1 | | 0 | 0 | | |
| A4 | A-18S | 18.1638 | 1 | 1 | 0 | 0 | | |
| A5 | A-18S | 18.2227 | 1 | | 0 | 0 | | |
| A6 | A-18S | 18.3667 | 1 | | 0 | 0 | | |
| A7 | A-β-Actin | 17.2541 | 1 | 1 | 0 | 0 | | |
| A8 | A-β-Actin | 17.1049 | 1 | | 0 | 0 | | |
| A9 | A-β-Actin | 17.226 | 1 | | 0 | 0 | | |
| B1 | B | 26.7331 | 0.8172 | 0.8167 | 0.2913 | -0.2913 | **A-2h** | |
| B2 | B | 26.5867 | 0.7941 | | 0.3326 | -0.3326 | | |
| B3 | B | 26.6776 | 0.8388 | | 0.2536 | -0.2536 | | |
| B4 | B-18S | 18.2918 | 0.9151 | 0.9986 | 0.128 | -0.128 | | |
| B5 | B-18S | 18.2013 | 1.0149 | | -0.0214 | 0.0214 | | |
| B6 | B-18S | 18.275 | 1.0656 | | -0.0917 | 0.0917 | | |
| B7 | B-β-Actin | 17.1665 | 1.0626 | 0.9564 | -0.0876 | 0.0876 | | |
| B8 | B-β-Actin | 17.3026 | 0.8719 | | 0.1977 | -0.1977 | | |
| B9 | B-β-Actin | 17.3233 | 0.9348 | | 0.0973 | -0.0973 | | |
| C1 | C | 27.071 | 0.6465 | 0.6495 | 0.6292 | -0.6292 | **A-4h** | |
| C2 | C | 27.0228 | 0.5869 | | 0.7687 | -0.7687 | | |
| C3 | C | 26.9081 | 0.7149 | | 0.4841 | -0.4841 | | |
| C4 | C-18S | 18.2267 | 0.9573 | 0.988 | 0.0629 | -0.0629 | | |
| C5 | C-18S | 18.1888 | 1.0238 | | -0.0339 | 0.0339 | | |
| C6 | C-18S | 18.3916 | 0.9829 | | 0.0249 | -0.0249 | | |
| C7 | C-β-Actin | 17.3458 | 0.9384 | 0.9337 | 0.0917 | -0.0917 | | |
| C8 | C-β-Actin | 17.2708 | 0.8914 | | 0.1659 | -0.1659 | | |
| C9 | C-β-Actin | 17.2678 | 0.9714 | | 0.0418 | -0.0418 | | |
| D1 | D | 27.3238 | 0.5426 | 0.5723 | 0.882 | -0.882 | **A-6h** | |
| D2 | D | 27.1435 | 0.5398 | | 0.8894 | -0.8894 | | |
| D3 | D | 27.0801 | 0.6346 | | 0.6561 | -0.6561 | | |
| D4 | D-18S | 18.3591 | 0.8734 | 0.9051 | 0.1953 | -0.1953 | | |
| D5 | D-18S | 18.4326 | 0.8646 | | 0.2099 | -0.2099 | | |
| D6 | D-18S | 18.3999 | 0.9773 | | 0.0332 | -0.0332 | | |
| D7 | D-β-Actin | 17.3426 | 0.9405 | 0.8735 | 0.0885 | -0.0885 | | |
| D8 | D-β-Actin | 17.4035 | 0.813 | | 0.2986 | -0.2986 | | |
| D9 | D-β-Actin | 17.432 | 0.8669 | | 0.206 | -0.206 | | |
| E1 | E | 27.4976 | 0.481 | 0.4683 | 1.0558 | -1.0558 | **A-8h** | |

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|---|---|---|---|---|---|---|---|
| E2 | E | 27.4528 | 0.4357 | | 1.1987 | -1.1987 | |
| E3 | E | 27.4582 | 0.4883 | | 1.0342 | -1.0342 | |
| E4 | E-18S | 18.3433 | 0.883 | 0.9213 | 0.1795 | -0.1795 | |
| E5 | E-18S | 18.3777 | 0.8981 | | 0.155 | -0.155 | |
| E6 | E-18S | 18.3918 | 0.9828 | | 0.0251 | -0.0251 | |
| E7 | E-β-Actin | 17.3922 | 0.9087 | 0.8478 | 0.1381 | -0.1381 | |
| E8 | E-β-Actin | 17.4108 | 0.8089 | | 0.3059 | -0.3059 | |
| E9 | E-β-Actin | 17.5021 | 0.8258 | | 0.2761 | -0.2761 | |
| F1 | F | 27.654 | 0.4316 | 0.4025 | 1.2122 | -1.2122 | **A-12h** |
| F2 | F | 27.7632 | 0.3513 | | 1.5091 | -1.5091 | |
| F3 | F | 27.6598 | 0.4246 | | 1.2358 | -1.2358 | |
| F4 | F-18S | 18.2553 | 0.9385 | 0.9135 | 0.0915 | -0.0915 | |
| F5 | F-18S | 18.4769 | 0.8385 | | 0.2542 | -0.2542 | |
| F6 | F-18S | 18.4202 | 0.9636 | | 0.0535 | -0.0535 | |
| F7 | F-β-Actin | 17.4454 | 0.8758 | 0.8183 | 0.1913 | -0.1913 | |
| F8 | F-β-Actin | 17.5132 | 0.7535 | | 0.4083 | -0.4083 | |
| F9 | F-β-Actin | 17.5024 | 0.8256 | | 0.2764 | -0.2764 | |
| G1 | G | 26.342 | 1.0716 | 1.0224 | -0.0998 | 0.0998 | **B-0h** |
| G2 | G | 26.3748 | 0.9197 | | 0.1207 | -0.1207 | |
| G3 | G | 26.3187 | 1.0757 | | -0.1053 | 0.1053 | |
| G4 | G-18S | 18.1942 | 0.9791 | 0.9954 | 0.0304 | -0.0304 | |
| G5 | G-18S | 18.339 | 0.9226 | | 0.1163 | -0.1163 | |
| G6 | G-18S | 18.2497 | 1.0845 | | -0.117 | 0.117 | |
| G7 | G-β-Actin | 17.1531 | 1.0725 | 1.0332 | -0.101 | 0.101 | |
| G8 | G-β-Actin | 17.1157 | 0.9925 | | 0.0108 | -0.0108 | |
| G9 | G-β-Actin | 17.1771 | 1.0345 | | -0.0489 | 0.0489 | |
| H1 | H | 26.4971 | 0.8563 | 0.8294 | 0.1551 | -0.1551 | **B-2h** |
| H2 | H | 26.5983 | 0.7997 | | 0.2235 | -0.2235 | |
| H3 | H | 26.5025 | 0.8321 | | 0.1838 | -0.1838 | |
| H4 | H-18S | 18.298 | 0.9112 | 0.9853 | 0.1342 | -0.1342 | |
| H5 | H-18S | 18.3318 | 0.9272 | | 0.1091 | -0.1091 | |
| H6 | H-18S | 18.2062 | 1.1177 | | -0.1605 | 0.1605 | |
| H7 | H-β-Actin | 17.2929 | 0.9735 | 0.977 | 0.0388 | -0.0388 | |
| H8 | H-β-Actin | 17.2841 | 0.8832 | | 0.1792 | -0.1792 | |
| H9 | H-β-Actin | 17.1227 | 1.0742 | | -0.1033 | 0.1033 | |
| I1 | I | 26.8035 | 0.6303 | 0.6156 | 0.4615 | -0.4615 | **B-4h** |
| I2 | I | 26.8519 | 0.6206 | | 0.4771 | -0.4771 | |
| I3 | I | 26.8166 | 0.6078 | | 0.4979 | -0.4979 | |
| I4 | I-18S | 18.3219 | 0.8962 | 0.9594 | 0.1581 | -0.1581 | |
| I5 | I-18S | 18.234 | 0.9922 | | 0.0113 | -0.0113 | |
| I6 | I-18S | 18.3815 | 0.9898 | | 0.0148 | -0.0148 | |
| I7 | I-β-Actin | 17.3449 | 0.939 | 0.919 | 0.0908 | -0.0908 | |
| I8 | I-β-Actin | 17.3295 | 0.8558 | | 0.2246 | -0.2246 | |
| I9 | I-β-Actin | 17.2818 | 0.9621 | | 0.0558 | -0.0558 | |
| J1 | J | 26.8369 | 0.6096 | 0.6204 | 0.4949 | -0.4949 | **B-6h** |
| J2 | J | 26.7992 | 0.6541 | | 0.4244 | -0.4244 | |
| J3 | J | 26.8324 | 0.5977 | | 0.5146 | -0.5146 | |
| J4 | J-18S | 18.4365 | 0.8278 | 0.9532 | 0.2727 | -0.2727 | |
| J5 | J-18S | 18.2763 | 0.9635 | | 0.0536 | -0.0536 | |
| J6 | J-18S | 18.2714 | 1.0683 | | -0.0953 | 0.0953 | |
| J7 | J-β-Actin | 17.4316 | 0.8842 | 0.8737 | 0.1775 | -0.1775 | |
| J8 | J-β-Actin | 17.3477 | 0.8451 | | 0.2428 | -0.2428 | |

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|---|---|---|---|---|---|---|---|
| J9 | J-β-Actin | 17.3913 | 0.8917 | | 0.1653 | -0.1653 | |
| K1 | K | 26.9894 | 0.5234 | 0.5029 | 0.6474 | -0.6474 | **B-8h** |
| K2 | K | 27.0292 | 0.5244 | | 0.6544 | -0.6544 | |
| K3 | K | 27.0935 | 0.4608 | | 0.7748 | -0.7748 | |
| K4 | K-18S | 18.4126 | 0.8416 | 0.9146 | 0.2488 | -0.2488 | |
| K5 | K-18S | 18.4065 | 0.8804 | | 0.1838 | -0.1838 | |
| K6 | K-18S | 18.3356 | 1.0218 | | -0.0311 | 0.0311 | |
| K7 | K-β-Actin | 17.4914 | 0.8483 | 0.8567 | 0.2373 | -0.2373 | |
| K8 | K-β-Actin | 17.3664 | 0.8342 | | 0.2615 | -0.2615 | |
| K9 | K-β-Actin | 17.3983 | 0.8874 | | 0.1723 | -0.1723 | |
| L1 | L | 27.1113 | 0.4633 | 0.418 | 0.7693 | -0.7693 | **B-12h** |
| L2 | L | 27.2782 | 0.4052 | | 0.9034 | -0.9034 | |
| L3 | L | 27.2716 | 0.3856 | | 0.9529 | -0.9529 | |
| L4 | L-18S | 18.377 | 0.8626 | 0.9183 | 0.2132 | -0.2132 | |
| L5 | L-18S | 18.4186 | 0.873 | | 0.1959 | -0.1959 | |
| L6 | L-18S | 18.3394 | 1.0191 | | -0.0273 | 0.0273 | |
| L7 | L-β-Actin | 17.4713 | 0.8602 | 0.8398 | 0.2172 | -0.2172 | |
| L8 | L-β-Actin | 17.5156 | 0.7523 | | 0.4107 | -0.4107 | |
| L9 | L-β-Actin | 17.367 | 0.9069 | | 0.141 | -0.141 | |